

BRL
 T.W.
 G.F.
 B.F.
 FINISHED LOWER LEVEL
 DAYLIGHT BASEMENT
 TOP OF WALL
 GARAGE FLOOR
 BASEMENT FLOOR
 PASSED PERC LOCATION
 FAILED PERC LOCATION
 SEWAGE DISPOSAL AREA
 WELL BOX AREA
 PROPOSED TREE
 PROPOSED TREE

INITIAL TRENCH DATA

BOTTOM MAX. DEPTH (7')

TRENCH 1 (T1): 52.50 I.F.

GROUND ABOVE = 460.90'

INV. IN = 457.90'

BOTTOM TRENCH = 453.90'

TRENCH 2 (T2): 52.50 I.F.

GROUND ABOVE = 459.50'

INV. IN = 457.00'

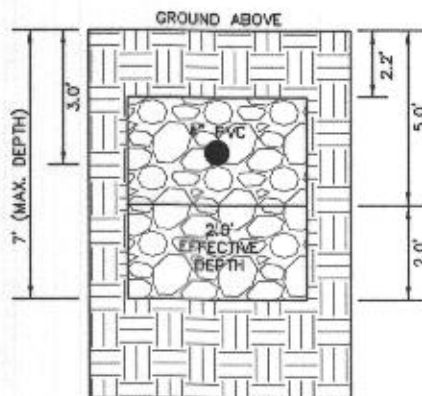
BOTTOM TRENCH = 452.50'

TRENCH 3 (T3): 52.50 I.F.

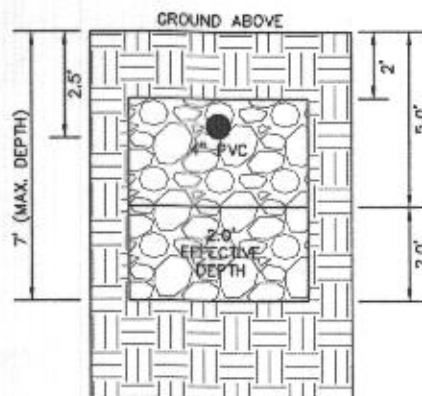
GROUND ABOVE = 459.30'

INV. IN = 456.60'

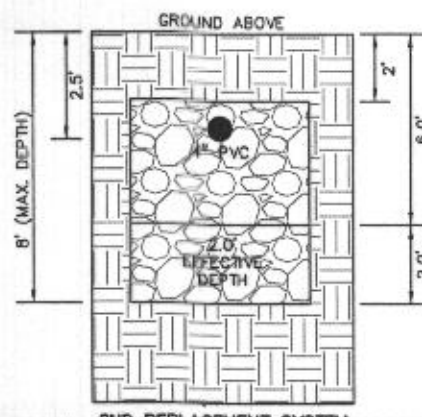
BOTTOM TRENCH = 452.30'



INITIAL SYSTEM
TRENCH DETAIL (T1) THRU (T3)
(NOT TO SCALE)

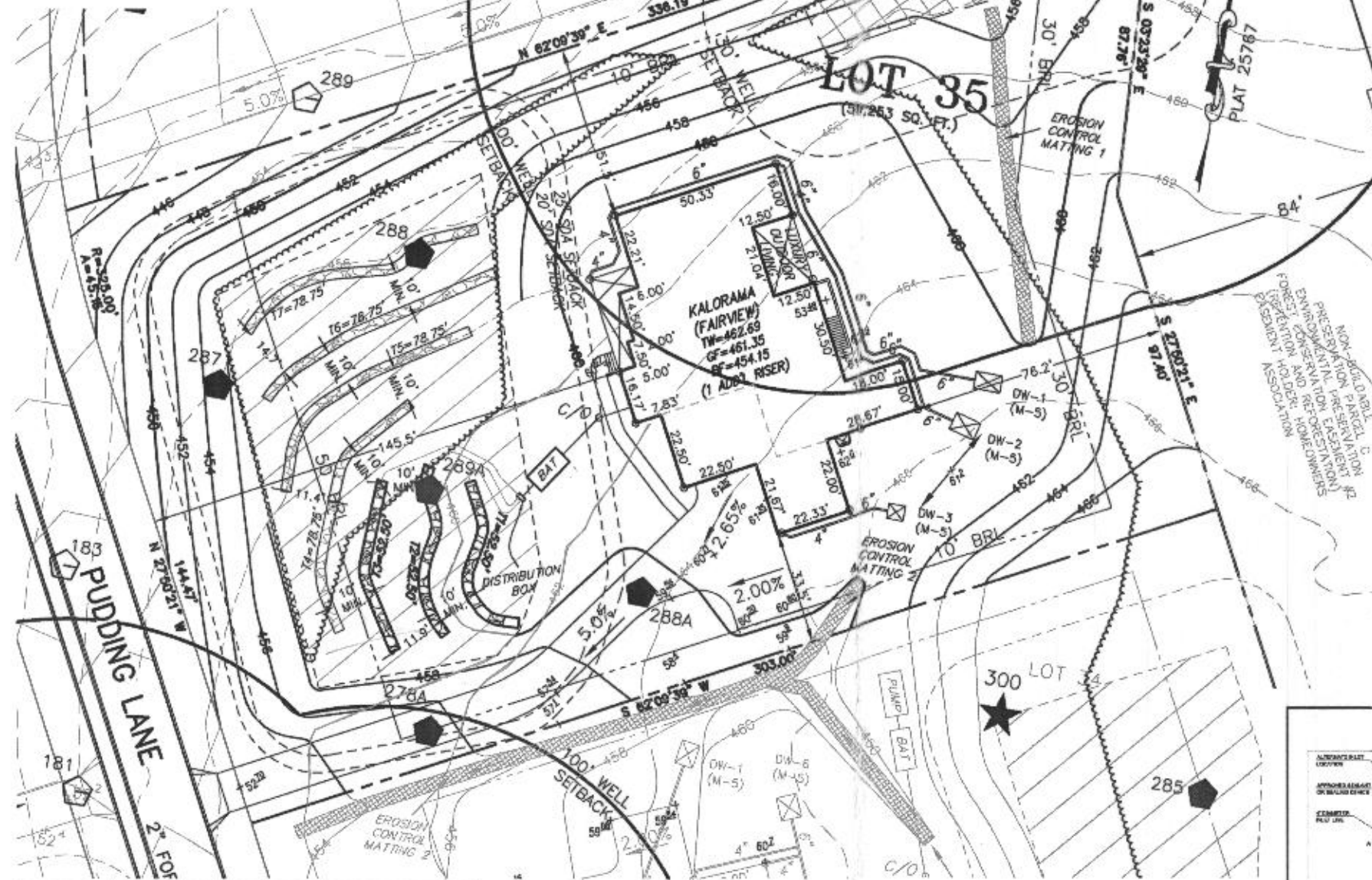


1ST REPLACEMENT SYSTEM
TRENCH DETAIL (T4) AND (T5)
(NOT TO SCALE)



2ND REPLACEMENT SYSTEM
TRENCH DETAIL (T6) AND (T7)
(NOT TO SCALE)

FINISHED LOWER LEVEL
 DAYLIGHT BASEMENT
 TOP OF WALL
 GARAGE FLOOR
 BASEMENT FLOOR
 PASSED PERC LOCATION
 FAILED PERC LOCATION
 SEWAGE DISPOSAL AREA
 WELL BOX AREA
 PROPOSED TREE
 PROPOSED TREE
 OPTION No. 013
 OPTION No. 018
 OPTION No. 043
 OPTION No. 061
 OPTION No. 082
 OPTION No. 081
 OPTION No. 283018
 OPTION No. 283036
 OPTION No. 283038
 OPTION No. 283073
 OPTION No. 283075
 OPTION No. 283111
 OPTION No. 283156
 OPTION No. 283165
 OPTION No. 283216
 OPTION No. 283381
 OPTION No. 283279



GENERAL NOTES:

- THESE AREAS DESIGNATE A PRIVATE SEWAGE AREA OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THESE AREAS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENTS UNTO THE PRIVATE SEWAGE AREA. RECORDATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.
- EXISTING WELLS, SEPTIC SYSTEMS, AND SEWAGE DISPOSAL AREAS WITHIN 100' OF THE PROPERTY AND THOSE WELLS WITHIN 200' DOWN GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS OR SEWAGE DISPOSAL AREAS HAVE BEEN SHOWN.
- ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- BUILDING SETBACKS (B.R.L.'s) SHOWN HEREON PER SITE DEVELOPMENT PLAN SETBACK DISTANCES SHOWN HEREON AS "1" HAVE AN ACCURACY OF $\pm 0.1'$ FOOT.
- ANY CHANGES TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
- THE MAXIMUM EARTH COVER OVER THE TANK IS THREE (3) FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
- THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP, WIDTH, AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- THE EXISTING TOPOGRAPHY SHOWN HEREON IS FROM HOWARD COUNTY GIS, 2' CONTOUR INTERVAL AND FIELD VERIFIED BY BENCHMARK ENGINEERING, INC., IN FEBRUARY 2014. ALSO A FIELD RUN TOPO WAS DONE BY ESE CONSULTANTS, INC. ON 12/13/2022 OF THE SEPTIC AREA ONLY.

WELL LOCATION CERTIFICATION:

THE EXISTING WELL SHOWN FOR LOT 35 (TAG NO. HO-18-0147) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.

SEWAGE DISPOSAL SYSTEM DATA (6 BDRM)

PROPOSED INVERT AT FOUNDATION WALL: 459.51'

1. EX. GRADE OVER TANK: 461.00'

PROPOSED GRADE OVER TANK: 460.50'

INVERT IN: 459.00' INVERT OUT: 458.70'

2. DISTRIBUTION BOX

EXISTING GRADE OVER TANK: 460.50'

PROPOSED GRADE OVER TANK: 460.50'

INVERT IN: 458.60' INVERT OUT: 458.30'

3. INITIAL TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)

900 GPD \div 1.2 APP. RATE = 750 SF

USE 3' WIDE TRENCH WITH 48" GRAVEL BELOW PIPE

10' MIN. SPACING BETWEEN TRENCH EDGES

750 SF \div 3' WIDTH = 250 LF \times 0.63 (SIDEWALL REDUCTION) = 157.50 LF MIN.

USE 3 52.50' LONG TRENCHES = 157.50 LF

4. 1ST REPLACEMENT TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)

900 GPD \div 1.2 APP. RATE = 750 SF

USE 3' WIDE TRENCH WITH 54" GRAVEL BELOW PIPE

10' MIN. SPACING BETWEEN TRENCH EDGES

750 SF \div 3' WIDTH = 250 LF \times 0.63 (SIDEWALL REDUCTION) = 157.50 LF MIN.

USE 2 78.75' LONG TRENCHES = 157.50 LF

5. 2ND REPLACEMENT TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)

900 GPD \div 1.2 APP. RATE = 750 SF

REVISION DUE TO FIELD INSPECTOR NOTICING GRADING IN THE SEWAGE DISPOSAL AREA AT THE INITIAL TRENCHES, FIELD CONDITIONS AND ADJUSTED TRENCHES ARE SHOWN HEREON**

REDINED FOR KEVIN WOLF ON 01/10/2023.



SITE PLAN FOR BAT INSTALLATION
 LOT 35
 KINGS FOREST
 LIBER 11372, FOLIO 431
 PLAT NO. 25767
 ELECTION DISTRICT No. 2

ESE CONSULTANTS
 ENGINEERING • PLANNING • SURVEYING • ENVIRONMENTAL

ESE Consultants, Inc.
 6731 Columbia Gateway Drive • Suite 120 • Columbia, MD 21046
 T: 410-872-9105

LEGEND:

- BRL BUILDING RESTRICTION LINE
- WELL LOCATION
- T.W. TOP OF WALL
- G.F. GARAGE FLOOR
- B.F. BASEMENT FLOOR
- FAILED PERC LOCATION
- SEWAGE DISPOSAL AREA
- WELL BOX AREA
- PROPOSED TREE
- PROPOSED TREE

INITIAL TRENCH DATA

BOTTOM MAX. DEPTH (7')

TRENCH 1 (T1): 52.50 LF
GROUND ABOVE = 460.90'
INV. IN = 457.90'
BOTTOM TRENCH = 453.90'

TRENCH 2 (T2): 52.50 LF
GROUND ABOVE = 459.50'
INV. IN = 457.00'
BOTTOM TRENCH = 452.50'

TRENCH 3 (T3): 52.50 LF
GROUND ABOVE = 459.30'
INV. IN = 456.80'
BOTTOM TRENCH = 452.30'

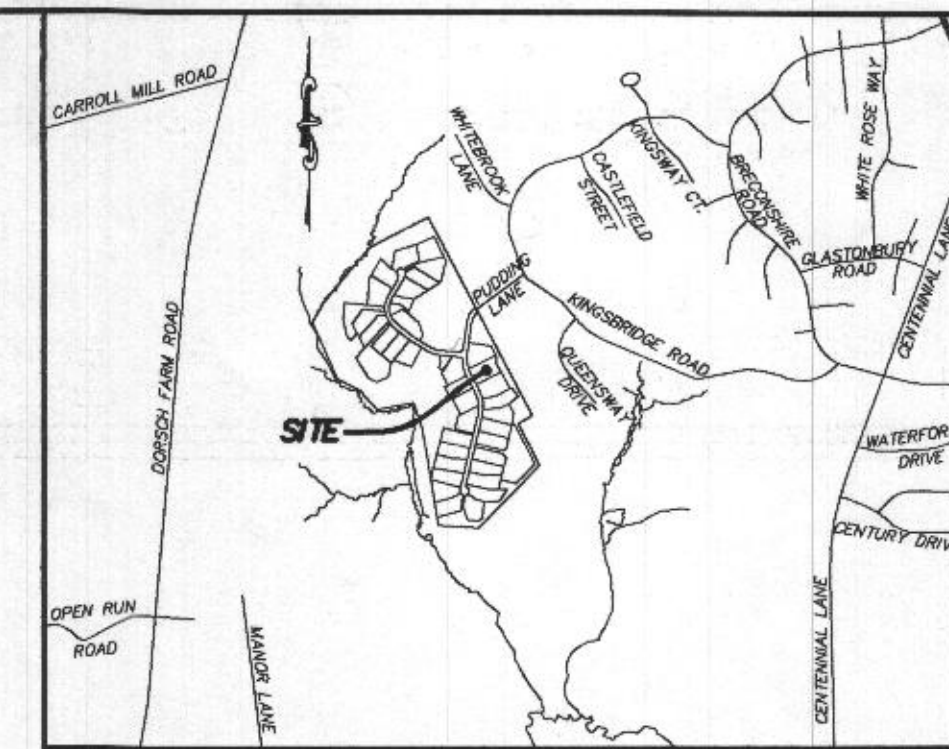
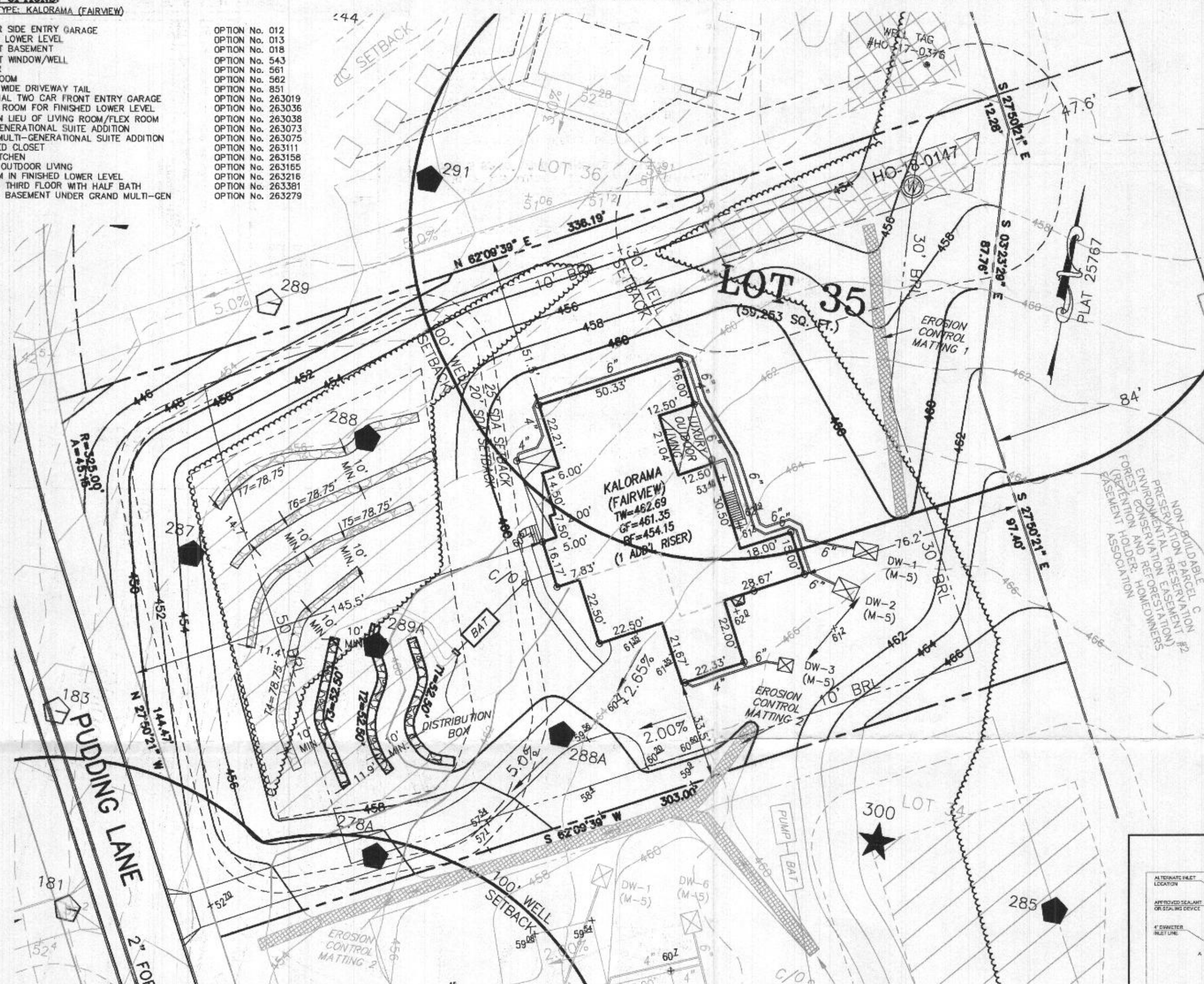
HOUSE OPTIONS:

HOUSE TYPE: KALORAMA (FAIRVIEW)

- TWO CAR SIDE ENTRY GARAGE
- FINISHED LOWER LEVEL
- DAYLIGHT BASEMENT
- DAYLIGHT WINDOW/WELL
- WET BAR
- MEDIA ROOM
- DOUBLE WIDE DRIVEWAY TAIL
- ADDITIONAL TWO CAR FRONT ENTRY GARAGE
- POWDER ROOM FOR FINISHED LOWER LEVEL
- STUDY IN LIEU OF LIVING ROOM/FLEX ROOM
- GRAND MULTI-GENERATIONAL SUITE ADDITION
- EXPANDED CLOSET
- PREP KITCHEN
- LUXURY OUTDOOR LIVING
- BEDROOM IN FINISHED LOWER LEVEL
- FINISHED THIRD FLOOR WITH HALF BATH
- FINISHED BASEMENT UNDER GRAND MULTI-GEN

- OPTION No. 012
- OPTION No. 013
- OPTION No. 018
- OPTION No. 543
- OPTION No. 561
- OPTION No. 562
- OPTION No. 551
- OPTION No. 263019
- OPTION No. 263036
- OPTION No. 263038
- OPTION No. 263073
- OPTION No. 263075
- OPTION No. 263111
- OPTION No. 263158
- OPTION No. 263165
- OPTION No. 263216
- OPTION No. 263381
- OPTION No. 263279

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21328, EXPIRATION DATE 1/8/25.

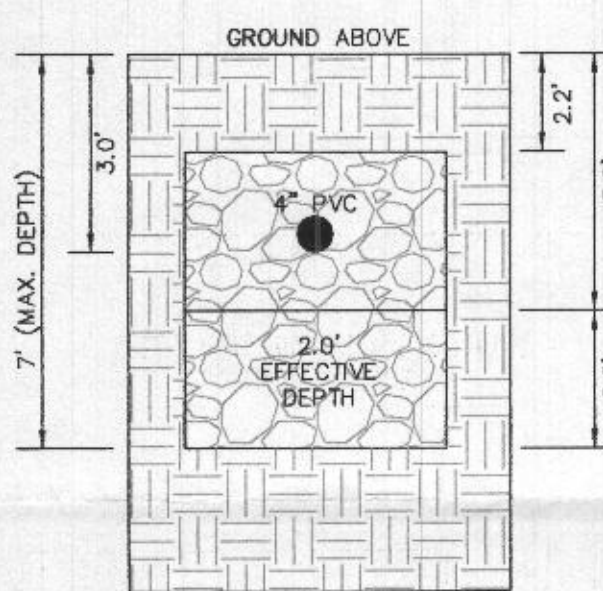


VICINITY MAP
1" = 1000'

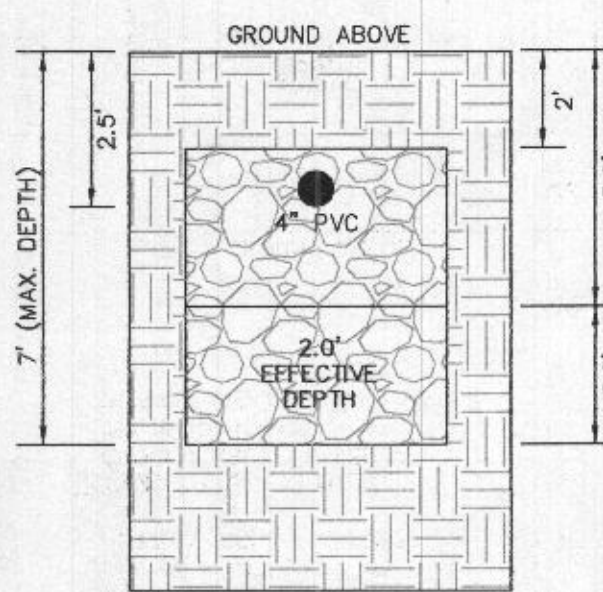
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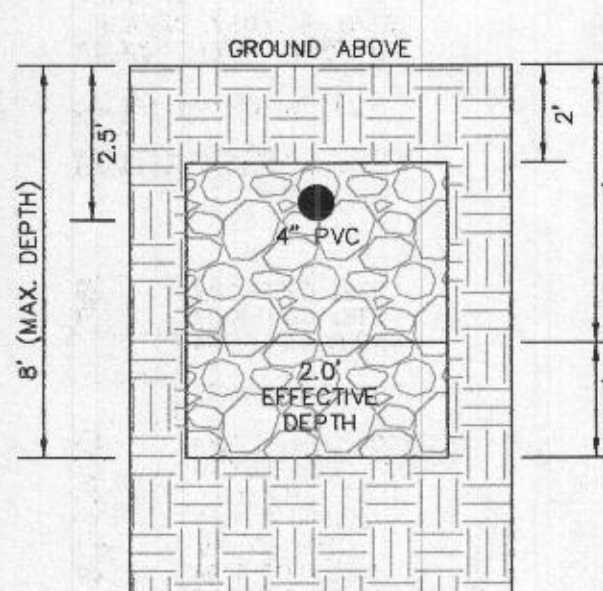
ALSO A FIELD RUN TOPO WAS DONE BY ESE CONSULTANTS, INC. ON 12/13/2022 OF THE SEPTIC AREA ONLY



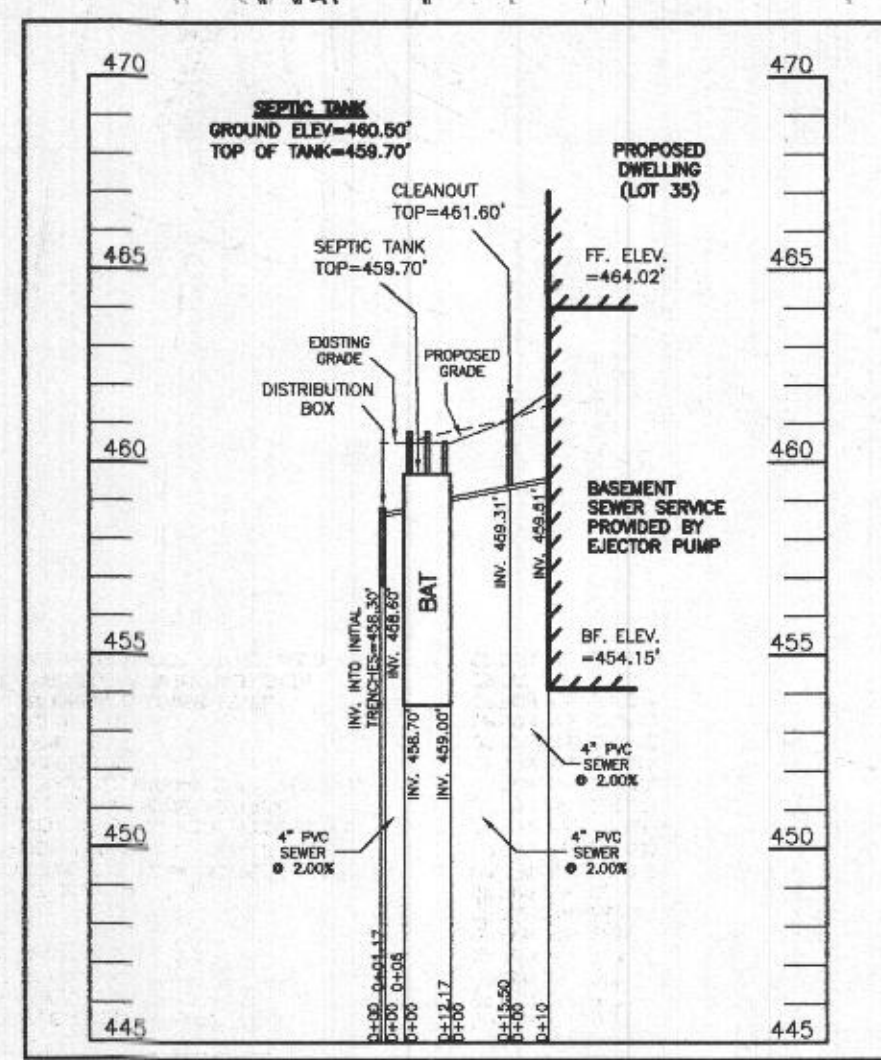
INITIAL SYSTEM
TRENCH DETAIL (T1) THRU (T3)
(NOT TO SCALE)



1ST REPLACEMENT SYSTEM
TRENCH DETAIL (T4) AND (T5)
(NOT TO SCALE)



2ND REPLACEMENT SYSTEM
TRENCH DETAIL (T6) AND (T7)
(NOT TO SCALE)



SEPTIC SYSTEM PROFILE
SCALE = HORIZONTAL: 1"=50'
VERTICAL: 1"=5'

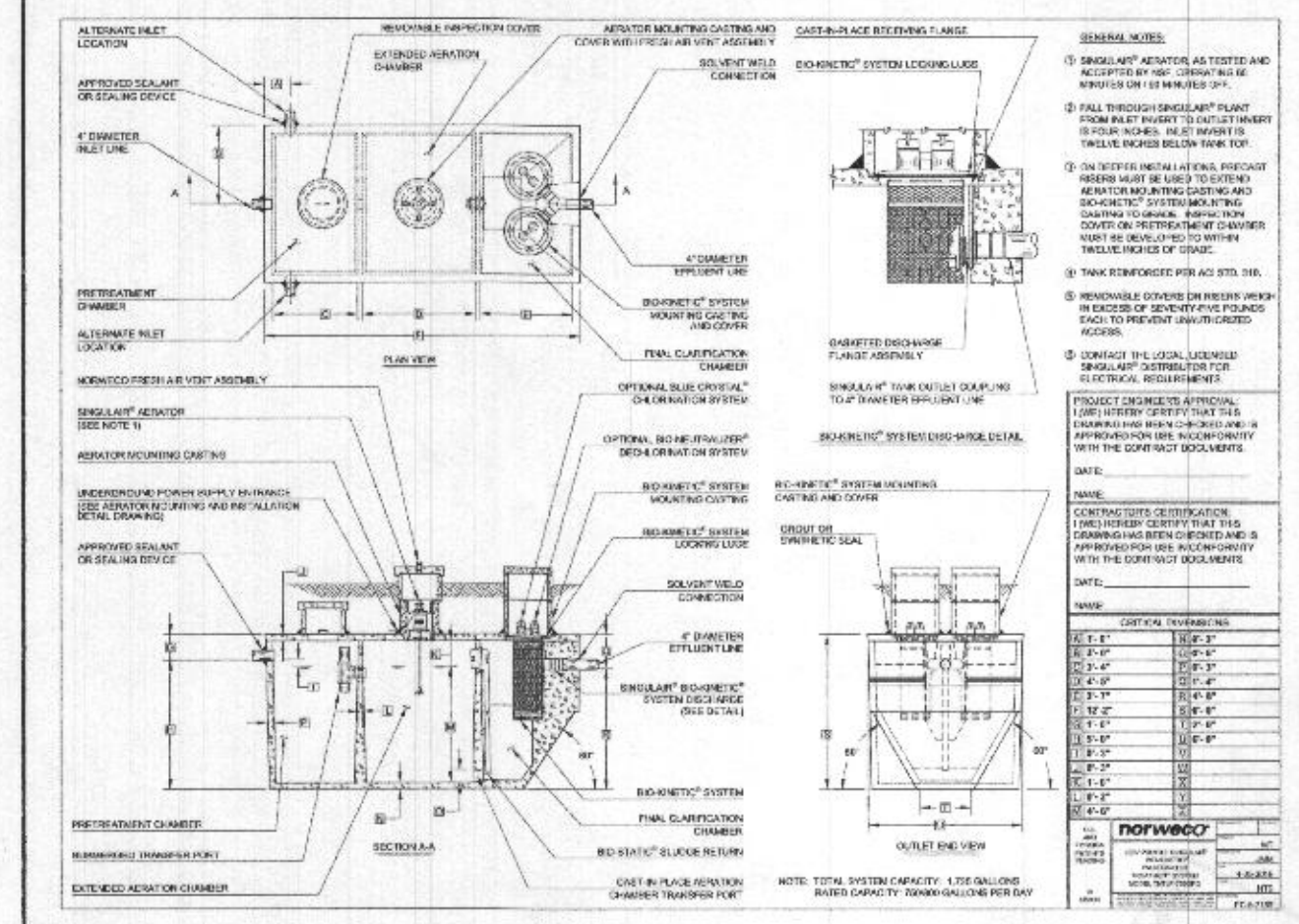
WELL LOCATION CERTIFICATION:

THE EXISTING WELL SHOWN FOR LOT 35 (TAG NO. HO-18-0147) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.

SEWAGE DISPOSAL SYSTEM DATA (6 BDRM):

- PROPOSED INVERT AT FOUNDATION WALL: 459.51'
- EX. GRADE OVER TANK: 461.00'
PROPOSED GRADE OVER TANK: 460.50'
INVERT IN: 459.00' INVERT OUT: 458.70'
 - DISTRIBUTION BOX
EXISTING GRADE OVER TANK: 460.50'
PROPOSED GRADE OVER TANK: 460.50'
INVERT IN: 458.60' INVERT OUT: 458.30'
 - INITIAL TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)
900 GPD ÷ 1.2 APP. RATE = 750 SF
USE 3' WIDE TRENCH WITH 48" GRAVEL BELOW PIPE
10' MIN. SPACING BETWEEN TRENCH EDGES
750 SF ÷ 3' WIDTH = 250 LF x 0.63 (SIDEWALL REDUCTION) = 157.50 LF MIN.
USE 3 52.50' LONG TRENCHES = 157.50 LF
 - 1ST REPLACEMENT TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)
900 GPD ÷ 1.2 APP. RATE = 750 SF
USE 3' WIDE TRENCH WITH 54" GRAVEL BELOW PIPE
10' MIN. SPACING BETWEEN TRENCH EDGES
750 SF ÷ 3' WIDTH = 250 LF x 0.63 (SIDEWALL REDUCTION) = 157.50 LF MIN.
USE 2 78.75' LONG TRENCHES = 157.50 LF
 - 2ND REPLACEMENT TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)
900 GPD ÷ 1.2 APP. RATE = 750 SF
USE 3' WIDE TRENCH WITH 66" GRAVEL BELOW PIPE
10' MIN. SPACING BETWEEN TRENCH EDGES
750 SF ÷ 3' WIDTH = 250 LF x 0.63 (SIDEWALL REDUCTION) = 157.50 LF MIN.
USE 2 78.75' LONG TRENCHES = 157.50 LF

REVISION DUE TO FIELD INSPECTOR NOTICING GRADING IN THE SEWAGE DISPOSAL AREA AT THE INITIAL TRENCHES, FIELD CONDITIONS AND ADJUSTED TRENCHES ARE SHOWN HEREON
REDINED FOR KEVIN WOLF ON 01/10/2023.



SITE PLAN FOR BAT INSTALLATION
LOT 35
KINGS FOREST
LIBER 11372, FOLIO 431
PLAT NO. 25767
ELECTION DISTRICT No. 2
HOWARD COUNTY, MARYLAND
ADDRESS: 10505 PUDDING LANE
ELICOTT CITY, MARYLAND 21042

ESE CONSULTANTS
ENGINEERING • PLANNING • SURVEYING • ENVIRONMENTAL

ESE Consultants, Inc.
6731 Columbia Gateway Drive • Suite 120 • Columbia, MD 21046
T: 410-872-9105

DATE: 05/28/2022 SCALE: 1"= 30' FILE: BAT LOT 35_rev1
CHK'D: M.J.B. JOB NO: 3502 DRAWN: R.C.K.

LEGEND:

- BRL BUILDING RESTRICTION LINE
T.W. TOP OF WALL
G.F. GARAGE FLOOR
B.F. BASEMENT FLOOR
PASSED PERC LOCATION
FAILED PERC LOCATION
SEWAGE DISPOSAL AREA
WELL BOX AREA
PROPOSED TREE
PROPOSED TREE

HOUSE OPTIONS:

HOUSE TYPE: KALORAMA (FAIRVIEW)

TWO CAR SIDE ENTRY GARAGE
FINISHED LOWER LEVEL
DAYLIGHT BASEMENT
DAYLIGHT WINDOW/WELL
WET BAR
MEDIA ROOM
DOUBLE WIDE DRIVEWAY TAIL
ADDITIONAL TWO CAR FRONT ENTRY GARAGE
POWDER ROOM FOR FINISHED LOWER LEVEL
STUDY IN LIEU OF LIVING ROOM/FLEX ROOM
MULTI-GENERATIONAL SUITE ADDITION
GRAND MULTI-GENERATIONAL SUITE ADDITION
EXPANDED CLOSET
PREP KITCHEN
LUXURY OUTDOOR LIVING
BEDROOM IN FINISHED LOWER LEVEL
FINISHED THIRD FLOOR WITH HALF BATH
FINISHED BASEMENT UNDER GRAND MULTI-GEN

OPTION No. 012
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OPTION No. 263111
OPTION No. 263158
OPTION No. 263165
OPTION No. 263216
OPTION No. 263381
OPTION No. 263279

INITIAL TRENCH DATA:

BOTTOM MAX. DEPTH (7')

TRENCH 1 (T1): 52.50 LF

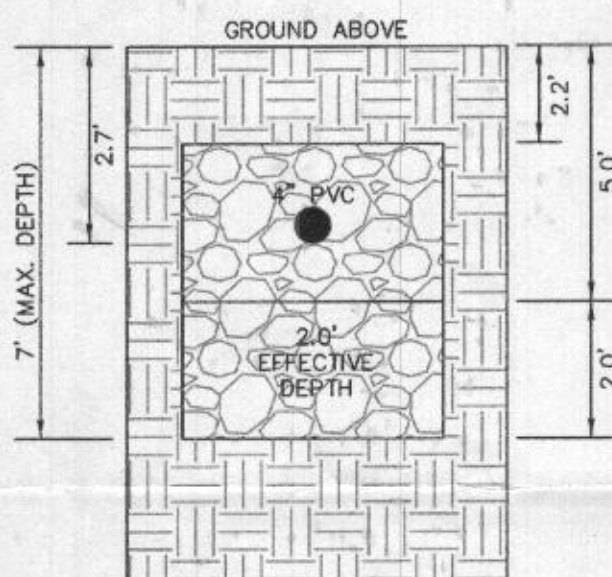
GROUND ABOVE = 460.70'
INV. IN = 458.00'
BOTTOM TRENCH = 453.70'

TRENCH 2 (T2): 52.50 LF

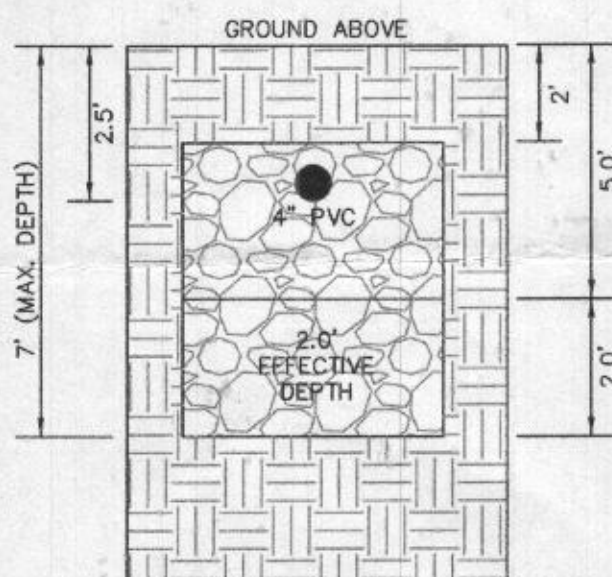
GROUND ABOVE = 460.50'
INV. IN = 457.80'
BOTTOM TRENCH = 453.50'

TRENCH 3 (T3): 52.50 LF

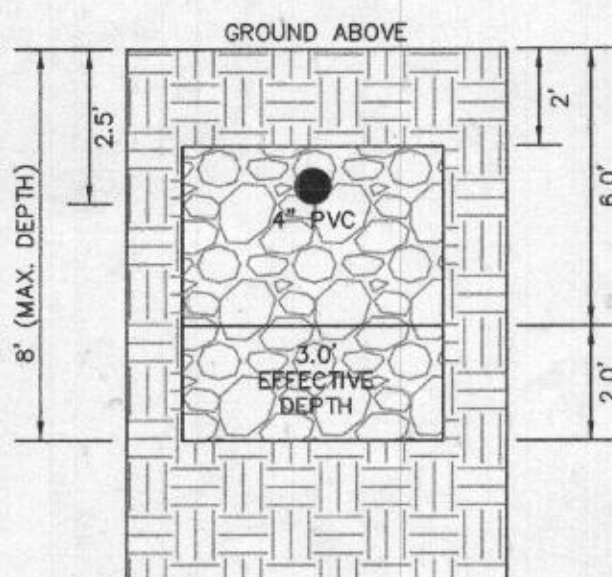
GROUND ABOVE = 459.90'
INV. IN = 457.20'
BOTTOM TRENCH = 452.90'



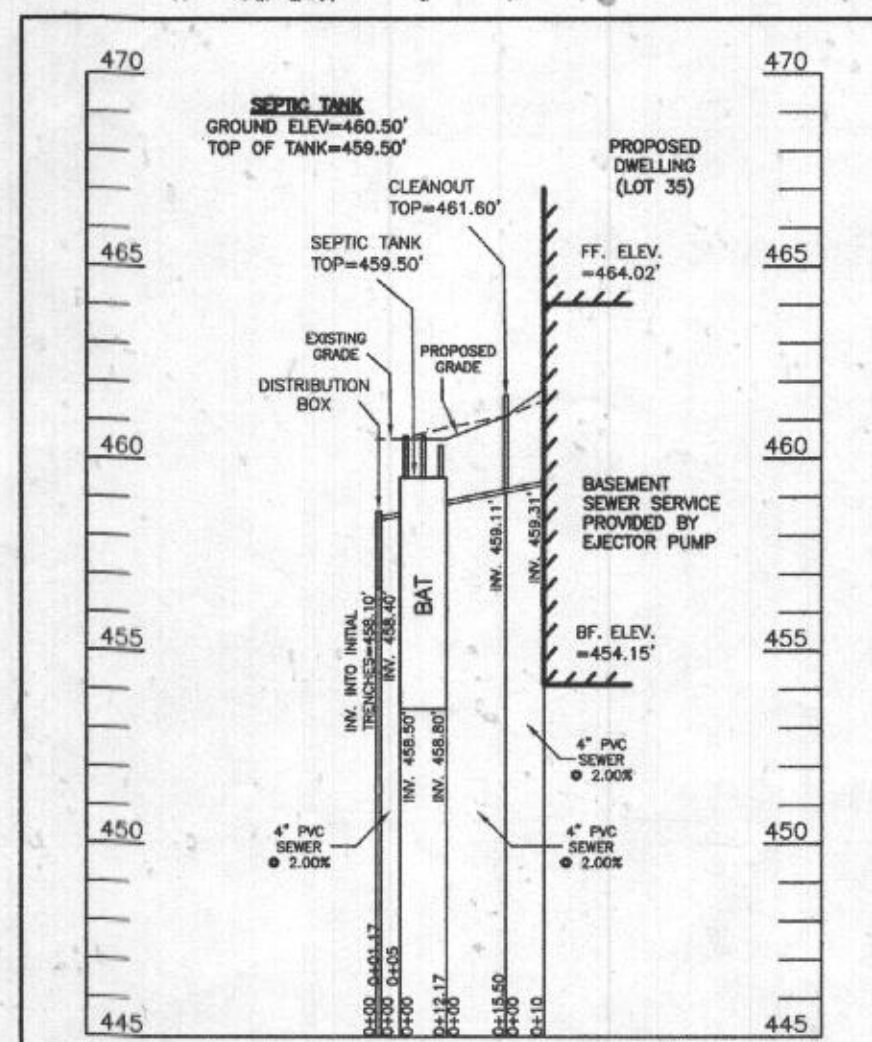
INITIAL SYSTEM
TRENCH DETAIL (T1) THRU (T3)
(NOT TO SCALE)



1ST REPLACEMENT SYSTEM
TRENCH DETAIL (T4) AND (T5)
(NOT TO SCALE)



2ND REPLACEMENT SYSTEM
TRENCH DETAIL (T6) AND (T7)
(NOT TO SCALE)



SEPTIC SYSTEM PROFILE
SCALE = HORIZONTAL: 1"=50'
VERTICAL: 1"=5'

WELL LOCATION CERTIFICATION:

THE EXISTING WELL SHOWN FOR LOT 35 (TAG NO. HO-18-0147) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.

SEWAGE DISPOSAL SYSTEM DATA (6 BDRM):

- PROPOSED INVERT AT FOUNDATION WALL: 459.31'
- EX. GRADE OVER TANK: 461.00'
PROPOSED GRADE OVER TANK: 460.50'
INVERT IN: 458.80' INVERT OUT: 458.50'
 - DISTRIBUTION BOX
EXISTING GRADE OVER TANK: 460.50'
PROPOSED GRADE OVER TANK: 460.50'
INVERT IN: 458.40' INVERT OUT: 458.10'
 - INITIAL TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)
900 GPD ÷ 1.2 APP. RATE = 750 SF
USE 3' WIDE TRENCH WITH 52" GRAVEL BELOW PIPE
10' MIN. SPACING BETWEEN TRENCH EDGES
750 SF ÷ 3' WIDTH = 250 LF x 0.63 (SIDEWALL REDUCTION) = 157.50 LF MIN.
USE 3 52.50' LONG TRENCHES = 157.50 LF
 - 1ST REPLACEMENT TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)
900 GPD ÷ 1.2 APP. RATE = 750 SF
USE 3' WIDE TRENCH WITH 54" GRAVEL BELOW PIPE
10' MIN. SPACING BETWEEN TRENCH EDGES
750 SF ÷ 3' WIDTH = 250 LF x 0.63 (SIDEWALL REDUCTION) = 157.50 LF MIN.
USE 2 78.75' LONG TRENCHES = 157.50 LF
 - 2ND REPLACEMENT TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)
900 GPD ÷ 1.2 APP. RATE = 750 SF
USE 3' WIDE TRENCH WITH 66" GRAVEL BELOW PIPE
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750 SF ÷ 3' WIDTH = 250 LF x 0.63 (SIDEWALL REDUCTION) = 157.50 LF MIN.
USE 2 78.75' LONG TRENCHES = 157.50 LF

Approved Septic System
Howard County Health Department
D. Beaud
6-7-22



SITE PLAN FOR BAT INSTALLATION
LOT 35 10505 Pudding Lane
KINGS FOREST
LIBER 11372, FOLIO 431
PLAT NO. 25767
ELECTION DISTRICT No. 2
HOWARD COUNTY, MARYLAND
ADDRESS: 10505 PUDDING LANE
ELLICOTT CITY, MARYLAND 21042

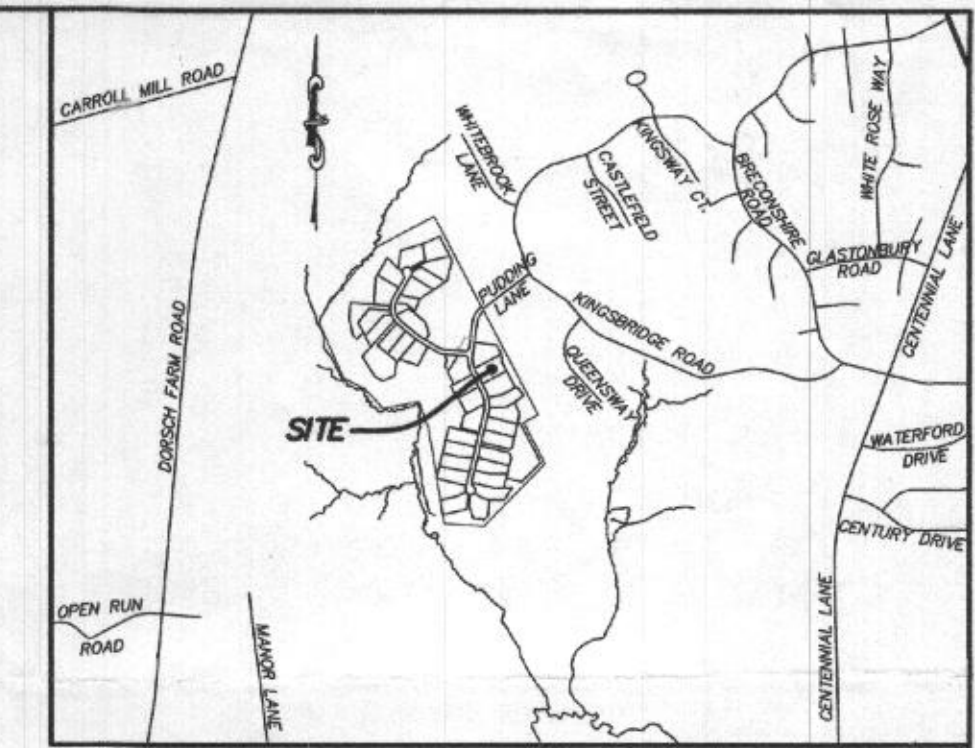
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6731 Columbia Gateway Drive • Suite 120 • Columbia, MD 21046
T: 410-872-9105

DATE: 05/28/2022
CHK'D: M.J.B.

SCALE: 1"= 30'
JOB NO: 3502

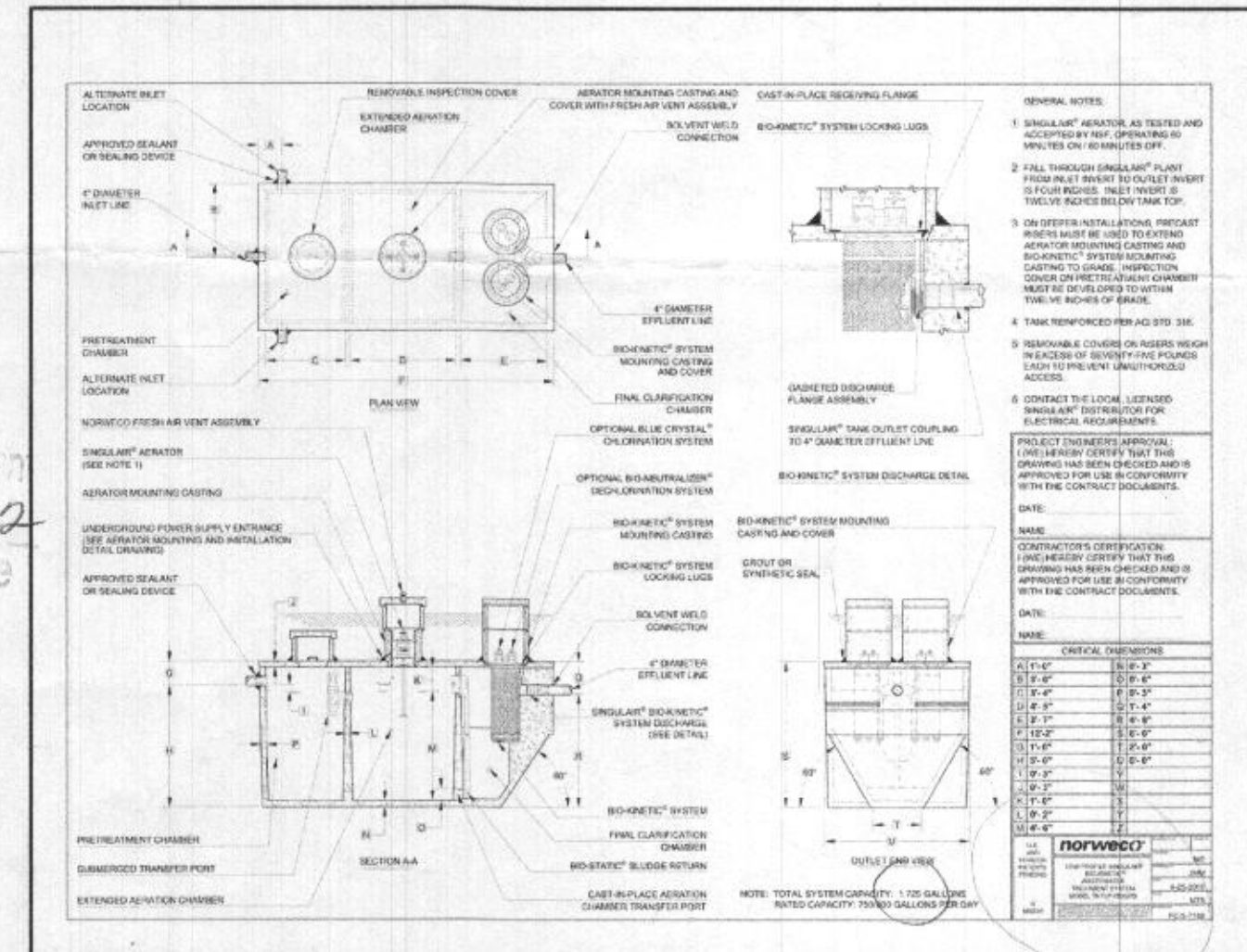
FILE: BAT LOT 35
DRAWN: R.C.K.



VICINITY MAP
1" = 1000'

GENERAL NOTES:

- THESE AREAS DESIGNATE A PRIVATE SEWAGE AREA OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THESE AREAS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENTS UNTO THE PRIVATE SEWAGE AREA. RECORDATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.
- EXISTING WELLS, SEPTIC SYSTEMS, AND SEWAGE DISPOSAL AREAS WITHIN 100' OF THE PROPERTY AND THOSE WELLS WITHIN 200' DOWN GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS OR SEWAGE DISPOSAL AREAS HAVE BEEN SHOWN.
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- BUILDING SETBACKS (B.R.L.'s) SHOWN HEREON PER SITE DEVELOPMENT PLAN SETBACK DISTANCES SHOWN HEREON AS "±" HAVE AN ACCURACY OF ±0.1' FOOT.
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LEGEND:

- BRL BUILDING RESTRICTION LINE
- T.W. WELL LOCATION
- G.F. GARAGE FLOOR
- B.F. BASEMENT FLOOR
- PAUSED PERC LOCATION
- FAILED PERC LOCATION
- SEWAGE DISPOSAL AREA
- WELL BOX AREA
- PROPOSED TREE
- PROPOSED TREE

INITIAL TRENCH DATA

BOTTOM MAX. DEPTH (7')

TRENCH 1 (T1): 52.50 LF
GROUND ABOVE = 460.90'
INV. IN = 457.90'
BOTTOM TRENCH = 453.90'

TRENCH 2 (T2): 52.50 LF
GROUND ABOVE = 459.50'
INV. IN = 457.00'
BOTTOM TRENCH = 452.50'

TRENCH 3 (T3): 52.50 LF
GROUND ABOVE = 459.30'
INV. IN = 456.80'
BOTTOM TRENCH = 452.30'

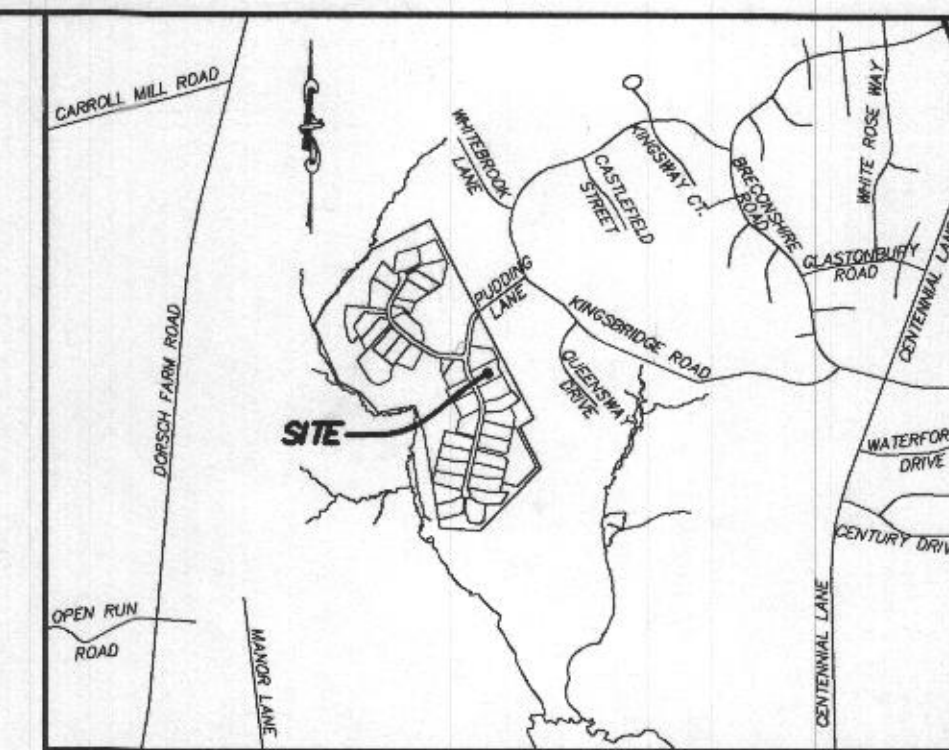
HOUSE OPTIONS:

HOUSE TYPE: KALORAMA (FAIRVIEW)

- TWO CAR SIDE ENTRY GARAGE
- FINISHED LOWER LEVEL
- DAYLIGHT BASEMENT
- DAYLIGHT WINDOW/WEIL
- WET BAR
- MEDIA ROOM
- DOUBLE WIDE DRIVEWAY TAIL
- ADDITIONAL TWO CAR FRONT ENTRY GARAGE
- POWDER ROOM FOR FINISHED LOWER LEVEL
- STUDY IN LIEU OF LIVING ROOM/FLEX ROOM
- GRAND MULTI-GENERATIONAL SUITE ADDITION
- EXPANDED CLOSET
- PREP KITCHEN
- LUXURY OUTDOOR LIVING
- BEDROOM IN FINISHED LOWER LEVEL
- FINISHED THIRD FLOOR WITH HALF BATH
- FINISHED BASEMENT UNDER GRAND MULTI-GEN

- OPTION No. 012
- OPTION No. 013
- OPTION No. 018
- OPTION No. 543
- OPTION No. 561
- OPTION No. 562
- OPTION No. 851
- OPTION No. 263019
- OPTION No. 263036
- OPTION No. 263038
- OPTION No. 263073
- OPTION No. 263075
- OPTION No. 263111
- OPTION No. 263158
- OPTION No. 263165
- OPTION No. 263216
- OPTION No. 263381
- OPTION No. 263279

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21328, EXPIRATION DATE 1/8/25.

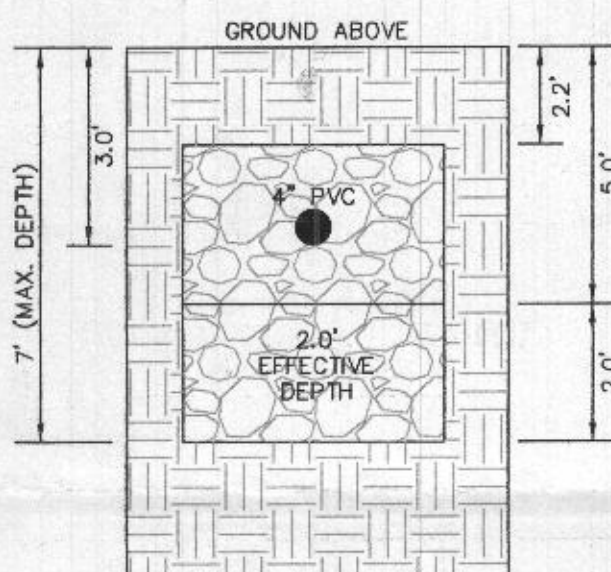
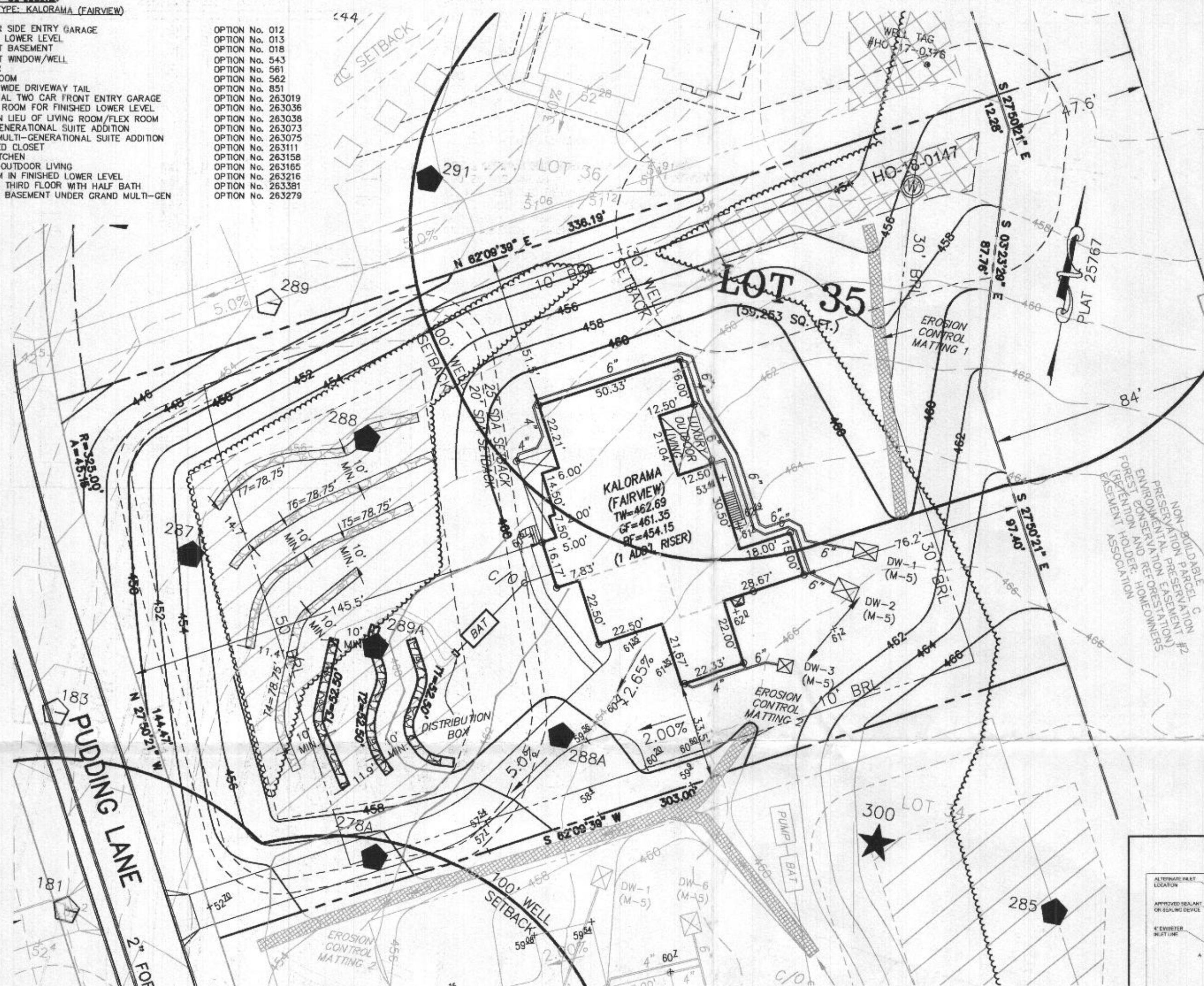


VICINITY MAP
1" = 1000'

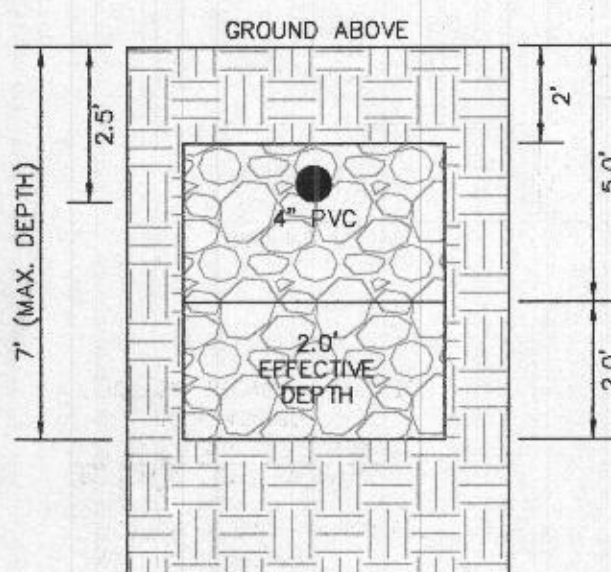
GENERAL NOTES:

- THESE AREAS DESIGNATE A PRIVATE SEWAGE AREA OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THESE AREAS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENTS INTO THE PRIVATE SEWAGE AREA. RECORDATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.
- EXISTING WELLS, SEPTIC SYSTEMS, AND SEWAGE DISPOSAL AREAS WITHIN 100' OF THE PROPERTY AND THOSE WELLS WITHIN 200' DOWN GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS OR SEWAGE DISPOSAL AREAS HAVE BEEN SHOWN.
- ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- BUILDING SETBACKS (B.R.L.'s) SHOWN HEREON PER SITE DEVELOPMENT PLAN SETBACK DISTANCES SHOWN HEREON AS "±" HAVE AN ACCURACY OF ±0.1' FOOT.
- ANY CHANGES TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
- THE MAXIMUM EARTH COVER OVER THE TANK IS THREE (3) FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
- THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP, WIDTH, AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- THE EXISTING TOPOGRAPHY SHOWN HEREON IS FROM HOWARD COUNTY GIS, 2' CONTOUR INTERVAL AND FIELD VERIFIED BY BENCHMARK ENGINEERING, INC., IN FEBRUARY 2014.

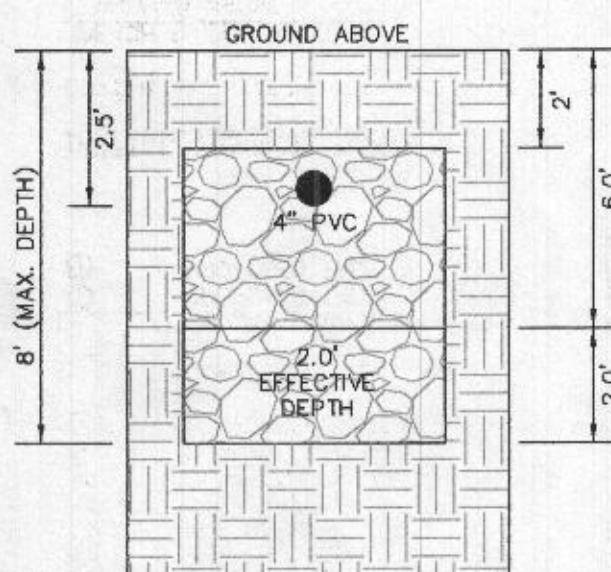
ALSO A FIELD RUN TOPO WAS DONE BY ESE CONSULTANTS, INC. ON 12/13/2022 OF THE SEPTIC AREA ONLY



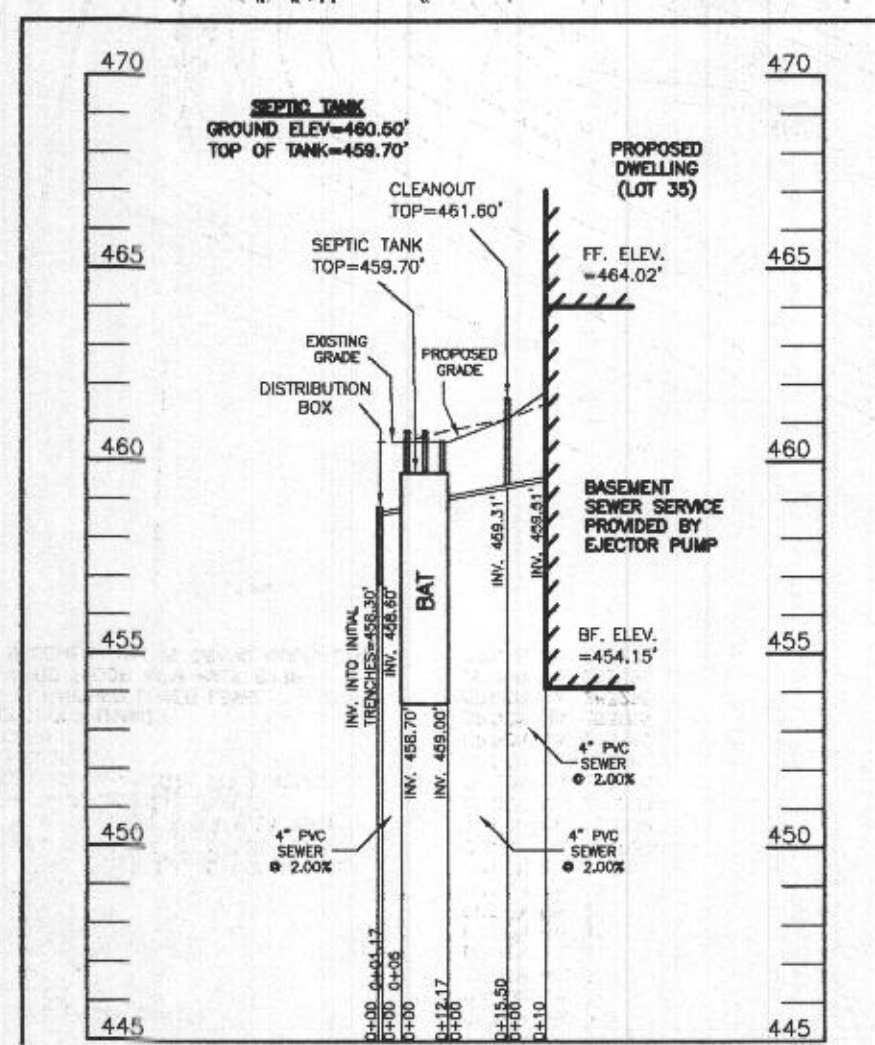
INITIAL SYSTEM
TRENCH DETAIL (T1) THRU (T3)
(NOT TO SCALE)



1ST REPLACEMENT SYSTEM
TRENCH DETAIL (T4) AND (T5)
(NOT TO SCALE)



2ND REPLACEMENT SYSTEM
TRENCH DETAIL (T6) AND (T7)
(NOT TO SCALE)



SEPTIC SYSTEM PROFILE
SCALE = HORIZONTAL: 1"=50'
VERTICAL: 1"=5'

WELL LOCATION CERTIFICATION:

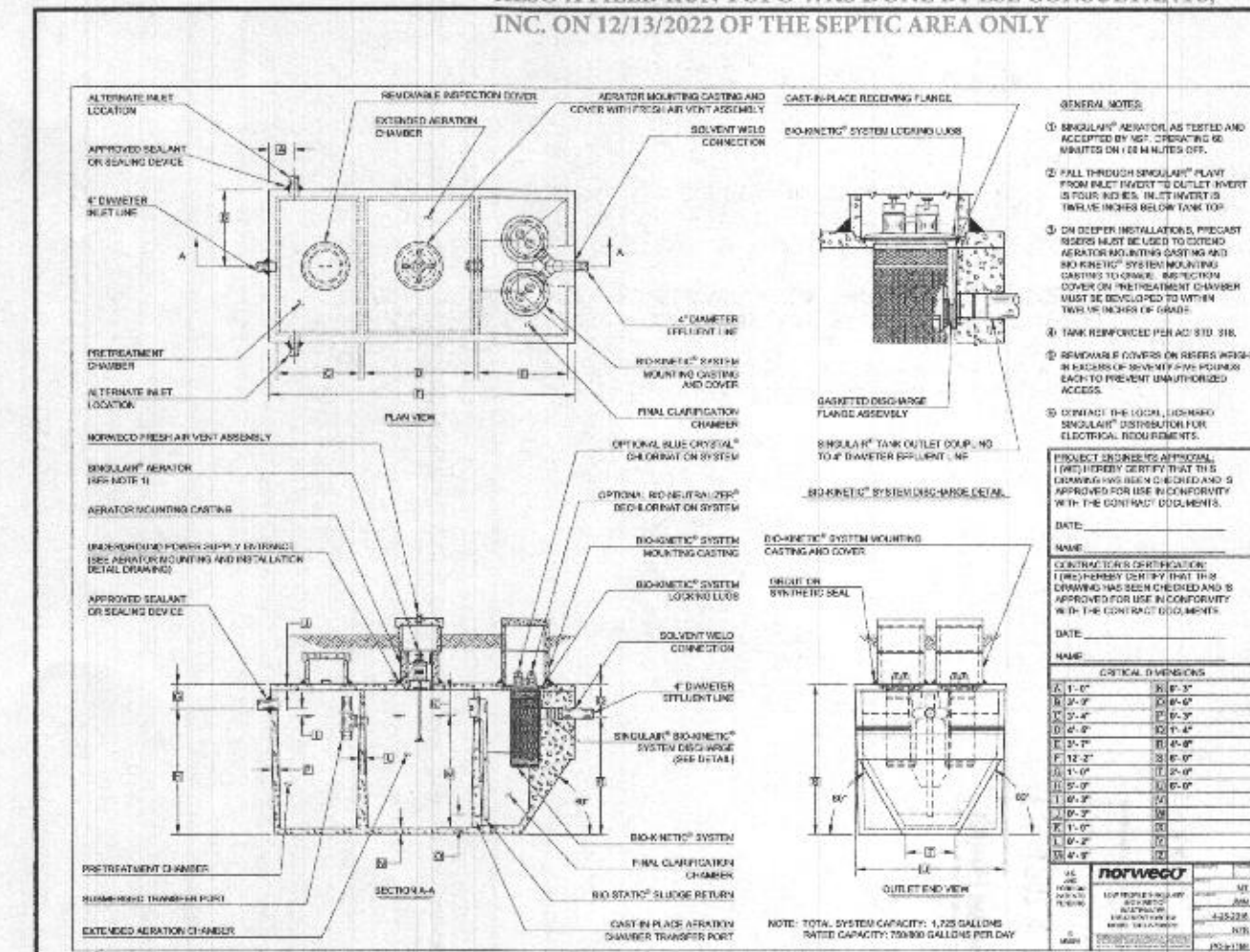
THE EXISTING WELL SHOWN FOR LOT 35 (TAG NO. HO-18-0147) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.

SEWAGE DISPOSAL SYSTEM DATA (6 BDRM):

- PROPOSED INVERT AT FOUNDATION WALL: 459.51'
- EX. GRADE OVER TANK: 461.00'
PROPOSED GRADE OVER TANK: 460.50'
INVERT IN: 459.00' INVERT OUT: 458.70'
 - DISTRIBUTION BOX
EXISTING GRADE OVER TANK: 460.50'
PROPOSED GRADE OVER TANK: 460.50'
INVERT IN: 458.60' INVERT OUT: 458.30'
 - INITIAL TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)
900 GPD ÷ 1.2 APP. RATE = 750 SF
USE 3' WIDE TRENCH WITH 48" GRAVEL BELOW PIPE
10' MIN. SPACING BETWEEN TRENCH EDGES
750 SF ÷ 3' WIDTH = 250 LF x 0.63 (SIDEWALL REDUCTION) = 157.50 LF MIN.
USE 3 52.50' LONG TRENCHES = 157.50 LF
 - 1ST REPLACEMENT TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)
900 GPD ÷ 1.2 APP. RATE = 750 SF
USE 3' WIDE TRENCH WITH 54" GRAVEL BELOW PIPE
10' MIN. SPACING BETWEEN TRENCH EDGES
750 SF ÷ 3' WIDTH = 250 LF x 0.63 (SIDEWALL REDUCTION) = 157.50 LF MIN.
USE 2 78.75' LONG TRENCHES = 157.50 LF
 - 2ND REPLACEMENT TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)
900 GPD ÷ 1.2 APP. RATE = 750 SF
USE 3' WIDE TRENCH WITH 66" GRAVEL BELOW PIPE
10' MIN. SPACING BETWEEN TRENCH EDGES
750 SF ÷ 3' WIDTH = 250 LF x 0.63 (SIDEWALL REDUCTION) = 157.50 LF MIN.
USE 2 78.75' LONG TRENCHES = 157.50 LF

REVISION DUE TO FIELD INSPECTOR NOTICING GRADING IN THE SEWAGE DISPOSAL AREA AT THE INITIAL TRENCHES, FIELD CONDITIONS AND ADJUSTED TRENCHES ARE SHOWN HEREON

REDINED FOR KEVIN WOLF ON 01/10/2023.



SITE PLAN FOR BAT INSTALLATION
LOT 35
KINGS FOREST
LIBER 11372, FOLIO 431
PLAT NO. 25767
ELECTION DISTRICT No. 2
HOWARD COUNTY, MARYLAND
ADDRESS: 10505 PUDDING LANE
ELLICOTT CITY, MARYLAND 21042

ESE CONSULTANTS
ENGINEERING • PLANNING • SURVEYING • ENVIRONMENTAL

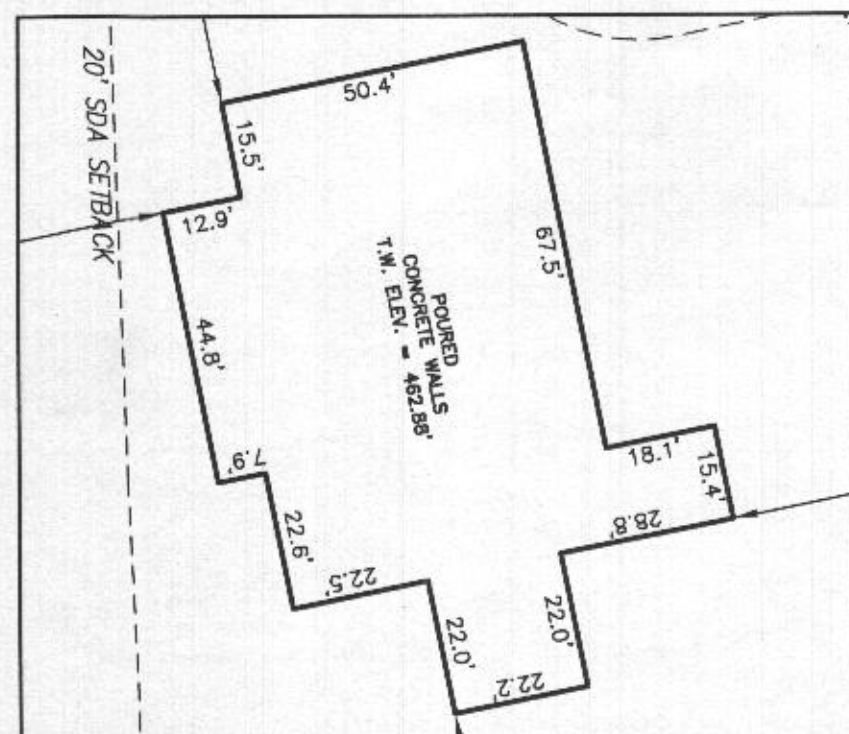
ESE Consultants, Inc.
6731 Columbia Gateway Drive • Suite 120 • Columbia, MD 21046
T: 410-872-9105

DATE: 05/28/2022 SCALE: 1"= 30' FILE: BAT LOT 35_rev1
CHK'D: M.J.B. JOB NO: 3502 DRAWN: R.C.K.

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21328, EXPIRATION DATE 1/8/23.

LEGEND:

- BRL BUILDING RESTRICTION LINE
WELL LOCATION
T.W. TOP OF WALL
- SEWAGE DISPOSAL AREA
WELL BOX AREA



HOUSE ENLARGEMENT
NOT TO SCALE

WELL NUMBER: HO-18-0147
ADDRESS: 10505 PUDDING LANE
ELLICOTT CITY, MD 21042
PERMIT No.: B22001587

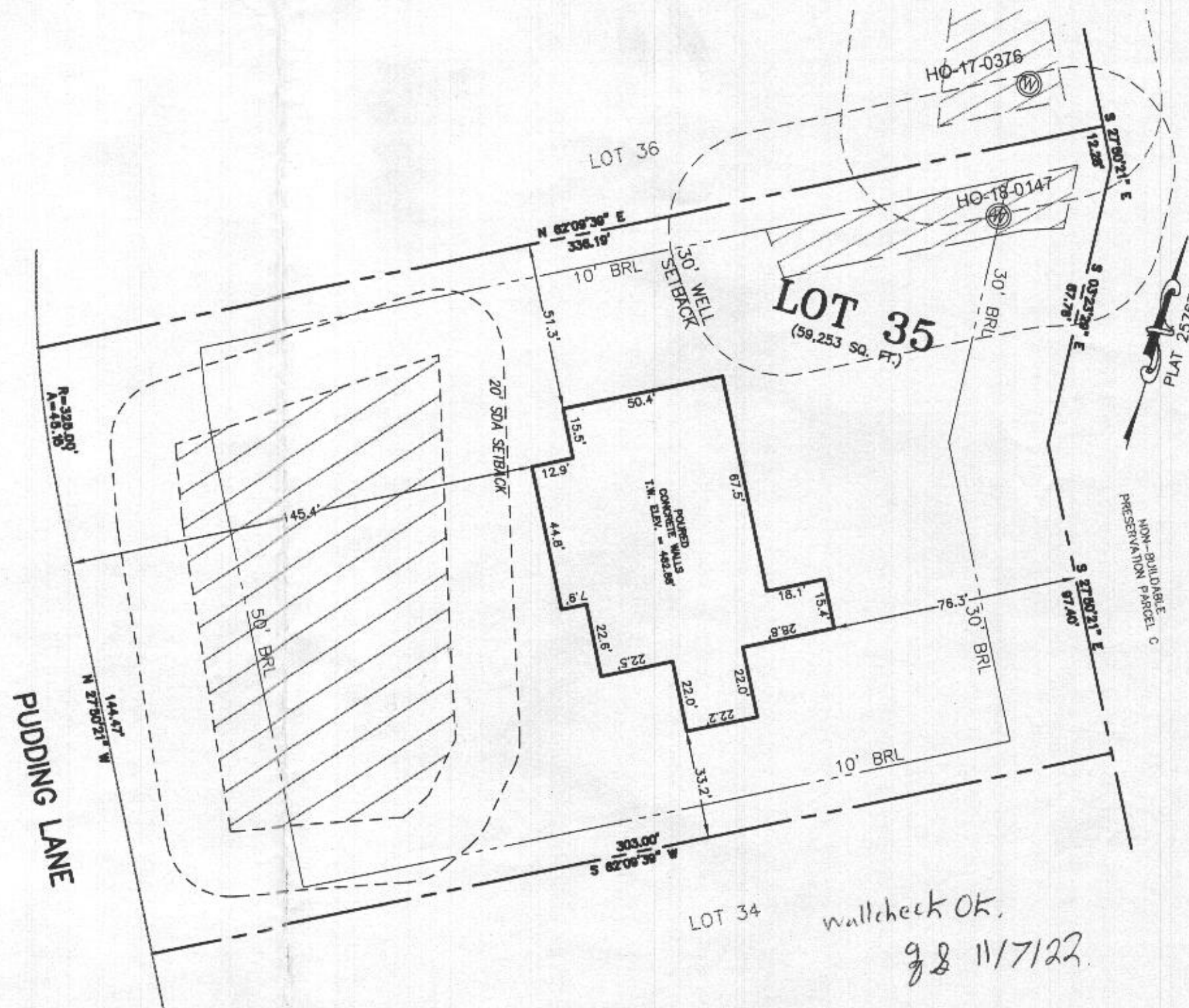
BUILDING SETBACKS (B.R.L.'s) SHOWN HEREON PER SITE DEVELOPEMENT PLAN
SETBACK DISTANCES SHOWN HEREON AS "±" HAVE AN ACCURACY OF ±0.1' FOOT.

SURVEYOR'S CERTIFICATE

THIS WALLCHECK WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT. THIS PROPERTY IS SUBJECT TO ANY AND ALL EASEMENTS, RIGHT-OF-WAYS, COVENANTS, AND RESTRICTIONS, ETC. OF RECORD, SOME OR ALL OF WHICH MAY OR MAY NOT BE SHOWN AND/OR REFERENCED HEREON. BEARINGS AND DISTANCES OF THE PROPERTY BOUNDARY LINES SHOWN HEREON ARE PER AVAILABLE RECORDS AND HAVE NOT BEEN FIELD VERIFIED.
THIS IS NOT A "LOCATION DRAWING" AND IS NOT TO BE USED FOR SETTLEMENT PURPOSES.

SIGNATURE: MICHAEL JOE BOYCE
MD. LIC. NO. 21328
DATE: 8/20/22

PUDDING LANE



WALLCHECK
LOT 35
KINGS FOREST
LIBER 11372, FOLIO 431
PLAT NO. 25767
ELECTION DISTRICT No. 4
HOWARD COUNTY, MARYLAND

ESE CONSULTANTS

ENGINEERING • PLANNING • SURVEYING • ENVIRONMENTAL

ESE Consultants, Inc.

6731 Columbia Gateway Drive • Suite 120 • Columbia, MD 21046

T: 410-872-9105

DATE: 08/20/2022

CHK'D: M.J.B.

SCALE: 1" = 40'





JOB NO: 3502

FILE: WC LOT 35

DRAWN: V.X.P.

GENERAL NOTES:

1. ~~THESE~~ THESE AREAS DESIGNATE A PRIVATE SEWAGE AREA OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THESE AREAS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENTS UNTO THE PRIVATE SEWAGE AREA. RECDORATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.
2. EXISTING WELLS, SEPTIC SYSTEMS, AND SEWAGE DISPOSAL AREAS WITHIN 100' OF THE PROPERTY AND THOSE WELLS WITHIN 200' DOWN GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS OR SEWAGE DISPOSAL AREAS HAVE BEEN SHOWN.
3. ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
4. BUILDING SETBACKS (B.L.L.'s) SHOWN HEREON PER SITE DEVELOPMENT PLAN SETBACK DISTANCES SHOWN HEREON AS "±" HAVE AN ACCURACY OF ±0.1' FOOT.
5. ANY CHANGES TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
6. THE MAXIMUM EARTH COVER OVER THE TANK IS THREE (3) FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
7. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP, WIDTH, AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
8. THE EXISTING TOPOGRAPHY SHOWN HEREON IS FROM HOWARD COUNTY DIS. 2' CONTOUR INTERVAL AND FIELD VERIFIED BY BENCHMARK ENGINEERING, INC., IN FEBRUARY 2014.

BRL	BUILDING RESTRICTION LINE
W	WELL LOCATION
T.W.	TOP OF WALL
G.F.	GARAGE FLOOR
B.F.	BASEMENT FLOOR
P	PASSED PERC LOCATION
F	FAILED PERC LOCATION
	SEWAGE DISPOSAL AREA
	WELL BOX AREA
	PROPOSED TREE
	PROPOSED TREE

HOUSE OPTIONS:
HOUSE, 100% KALAMATA (TRIMMED)

TWO CAR SIDE ENTRY GARAGE
FINISHED LOWER LEVEL
DAYLIGHT BASEMENT
DAYLIGHT WINDOWWELL
NET BAR
MEDIA ROOM
DOUBLE WIDE DRIVEWAY TAIL
ADDITIONAL TWO CAR FRONT ENTRY GARAGE
POWDER ROOM FOR FINISHED LOWER LEVEL
STUDY IN LEVEL OF FINISHED ROYAL SUITE
GRAND MASTER-GENERATIONAL SUITE ADDITION
EXPANDED CLOSET
PROPITCHED
LUXURY OUTDOOR KITCHEN
BEDROOM IN FINISHED LOWER LEVEL
FINISHED THIRD FLOOR
FINISHED LOWER LEVEL
GRAND MASTER-GENERATIONAL SUITE ADDITION

OPTION No.	012
OPTION No.	013
OPTION No.	016
OPTION No.	343
OPTION No.	581
OPTION No.	582
OPTION No.	585
OPTION No.	263019
OPTION No.	263036
OPTION No.	263038
OPTION No.	263073
OPTION No.	263075
OPTION No.	382111
OPTION No.	263158
OPTION No.	263165
OPTION No.	263215
OPTION No.	263351
OPTION No.	263725

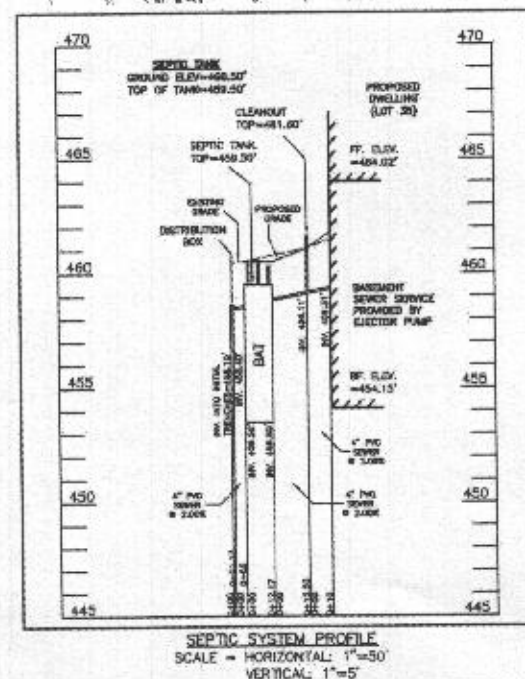
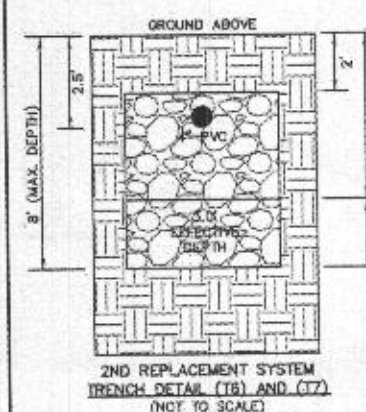
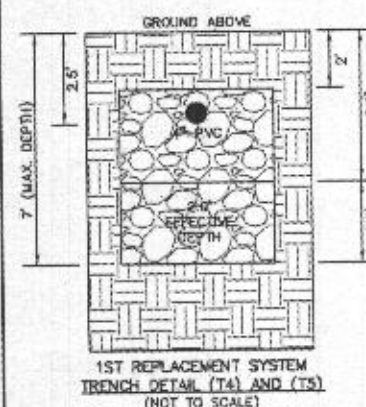
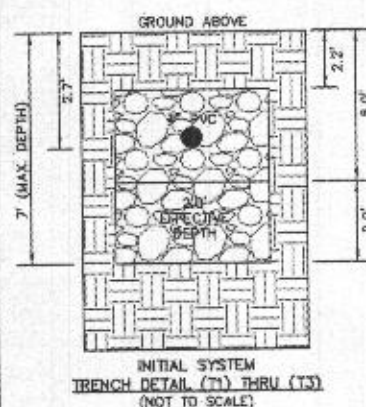
INITIAL TRENCH DATA:

BOTTOM MAX. DEPTH (7')

TRENCH 1 (T1): 52.50 I.F.
GROUND ABOVE = 460.70'
INV. IN = 458.00'
BOTTOM TRENCH = 453.70'

TRENCH 2 (T2): 52.50 I.F.
GROUND ABOVE = 460.50'
INV. IN = 457.90'
BOTTOM TRENCH = 453.50'

TRENCH 3 (T3): 52.50 I.F.
GROUND ABOVE = 459.90'
INV. IN = 457.20'
BOTTOM TRENCH = 452.90'



WELL LOCATION CERTIFICATION:

THE EXISTING WELL SHOWN FOR LOT 35 (TAG NO. MO-18-0147)
HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.

SEWAGE DISPOSAL SYSTEM DATA (6 BIRM)

PROPOSED INVERT AT FOUNDATION WALL: 459.31'
1. EX. GRADE OVER TANK: 461.00'
PROPOSED GRADE OVER TANK: 460.50'
INVERT IN: 458.50' INVERT OUT: 458.50'

2. DISTRIBUTION BOX
EXISTING GRADE OVER TANK: 460.50'
PROPOSED GRADE OVER TANK: 460.50'
INVERT IN: 458.40' INVERT OUT: 458.10'

3. INITIAL TRENCH DESIGN (8 BORM x 150 GPD/BORM = 900 GPD)
900 GPD x 1.2 APP. RATE = 750 SF
USE 3' WIDE TRENCH WITH 52" GRAVEL BELOW PIPE
10' MIN. SPACING BETWEEN TRENCH EDGES
750 SF x 3' WIDTH = 250 LF x 0.63 (SIDEWALL REDUCTION) = 157.50 LF MIN.
USE 3 52.50' LONG TRENCHES = 157.50 LF

4. 1ST REPLACEMENT TRENCH DESIGN (8 BORM x 150 GPD/BORM = 900 GPD)
900 GPD x 1.2 APP. RATE = 750 SF
USE 3' WIDE TRENCH WITH 54" GRAVEL BELOW PIPE
10' MIN. SPACING BETWEEN TRENCH EDGES
750 SF x 3' WIDTH = 250 LF x 0.63 (SIDEWALL REDUCTION) = 157.50 LF MIN.
USE 2 78.75' LONG TRENCHES = 157.50 LF

5. 2ND REPLACEMENT TRENCH DESIGN (8 BORM x 150 GPD/BORM = 900 GPD)
900 GPD x 1.2 APP. RATE = 750 SF
USE 3' WIDE TRENCH WITH 66" GRAVEL BELOW PIPE
10' MIN. SPACING BETWEEN TRENCH EDGES
750 SF x 3' WIDTH = 250 LF x 0.63 (SIDEWALL REDUCTION) = 157.50 LF MIN.
USE 2 78.75' LONG TRENCHES = 157.50 LF



SITE PLAN FOR BAT INSTALLATION
LOT 35
KINGS FOREST
LIBER 11372, FOLIO 431
PLAT NO. 25767
ELECTION DISTRICT No. 2
HOWARD COUNTY, MARYLAND
ADDRESS: 10505 PUDDING LANE
ELLCOTT CITY, MARYLAND 21042

ESE CONSULTANTS

ESE Consultants, Inc.
8731 Columbia Gateway Drive • Suite 120 • Columbia, MD 21046
T: 410-872-8105

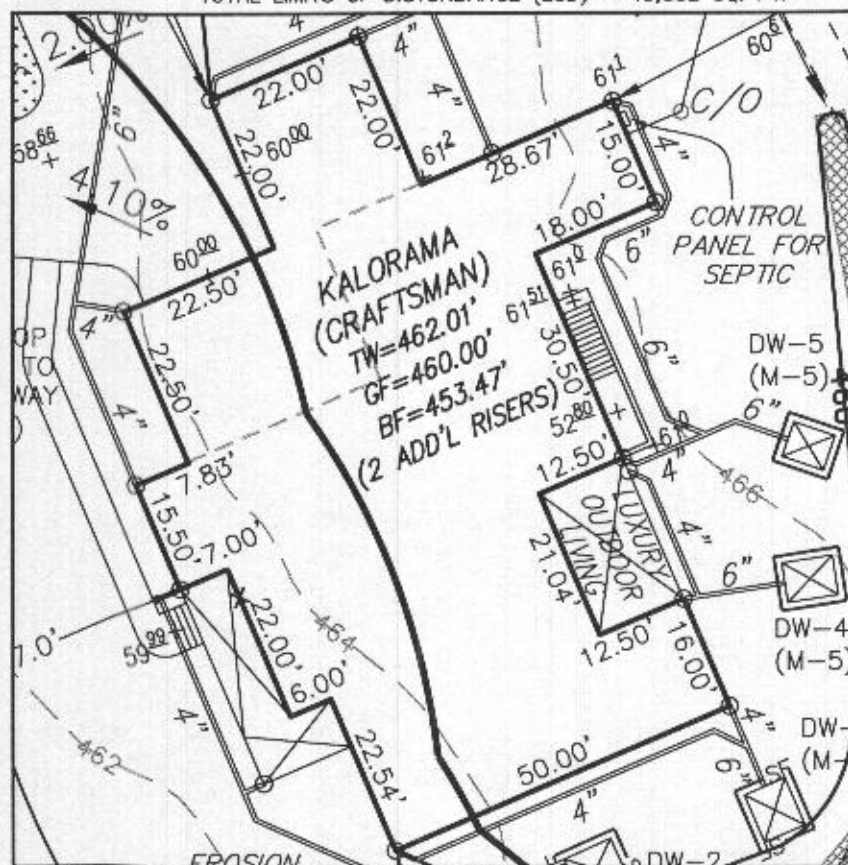
DATE: 05/28/2022	SCALE: 1" = 30'	FILE: BAT LOT 33
CHK'D: M.J.B	JOB NO: 3502	DRAWN: R.C.K.

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21328, EXPIRATION DATE 1/8/23.

LEGEND:

- BRL BUILDING RESTRICTION LINE
W WELL LOCATION
T.W. TOP OF WALL
G.F. GARAGE FLOOR
B.F. BASEMENT FLOOR
● PASSED PERC LOCATION
★ FAILED PERC LOCATION
SEWAGE DISPOSAL AREA
WELL BOX AREA
SILT FENCE
SUPER SILT FENCE
LIMITS OF DISTURBANCE
PROPOSED TREE
SCE STONE CONSTRUCTION ENTRANCE

NOTE:
TOTAL LIMITS OF DISTURBANCE (LOD) = 49,832 SQ. FT.



HOUSE ENLARGEMENT
NOT TO SCALE

BUILDING SETBACKS (B.R.L.'s) SHOWN HEREON PER SITE DEVELOPEMENT PLAN
SETBACK DISTANCES SHOWN HEREON AS "±" HAVE AN ACCURACY OF ±0.1' FOOT.

HOUSE TYPE: KALORAMA (CRAFTSMAN)

TWO CAR SIDE ENTRY GARAGE
FINISHED LOWER LEVEL
DAYLIGHT BASEMENT
ADDITIONAL TWO CAR FRONT ENTRY GARAGE
POWDER ROOM
MULTI-GENERATIONAL SUITE ADDITION
GRAND MULTI-GENERATIONAL SUITE ADDITION
BEDROOM
WET BAR
MEDIA ROOM
LUXURY OUTDOOR LIVING
OUTDOOR INTEGRATED SPACE
DOUBLE WIDE DRIVEWAY TAIL

OPTION No. 012
OPTION No. 013
OPTION No. 018
OPTION No. 263019
OPTION No. 263036
OPTION No. 263073
OPTION No. 263075
OPTION No. 263216
OPTION No. 581
OPTION No. 582
OPTION No. 263165
OPTION No. 189053
OPTION No. 851

WELL NUMBER: HO-18-0162

ADDRESS:
10509 PUDDING LANE
ELLICOTT CITY, MD 21042

PERMIT PLOT PLAN
LOT 34
KINGS FOREST
LIBER 11372, FOLIO 431
PLAT NO. 25767
ELECTION DISTRICT No. 4
HOWARD COUNTY, MARYLAND

ESE CONSULTANTS

ENGINEERING • PLANNING • SURVEYING • ENVIRONMENTAL

ESE Consultants, Inc.

6731 Columbia Gateway Drive • Suite 120 • Columbia, MD 21046

T: 410-872-9105

DATE: 02/22/2022 SCALE: 1" = 40' FILE: PP LOT 34 - KALORAMA CRAFTS._rev1
CHK'D: M.J.B. JOB NO: 3502 DRAWN: R.P.S.

LEGEND:

- BRL BUILDING RESTRICTION LINE
- WELL LOCATION
- G.F. GARAGE FLOOR
- B.F. BASEMENT FLOOR
- PAVED PERC LOCATION
- SEWAGE DISPOSAL AREA
- WELL BOX AREA
- PROPOSED TREE
- PROPOSED TREE

INITIAL TRENCH DATA:

BOTTOM MAX. DEPTH (7')

TRENCH 1 (T1): 52.50 LF
GROUND ABOVE = 460.90'
INV. IN = 457.90'
BOTTOM TRENCH = 453.90'

TRENCH 2 (T2): 52.50 LF
GROUND ABOVE = 459.50'
INV. IN = 457.00'
BOTTOM TRENCH = 452.50'

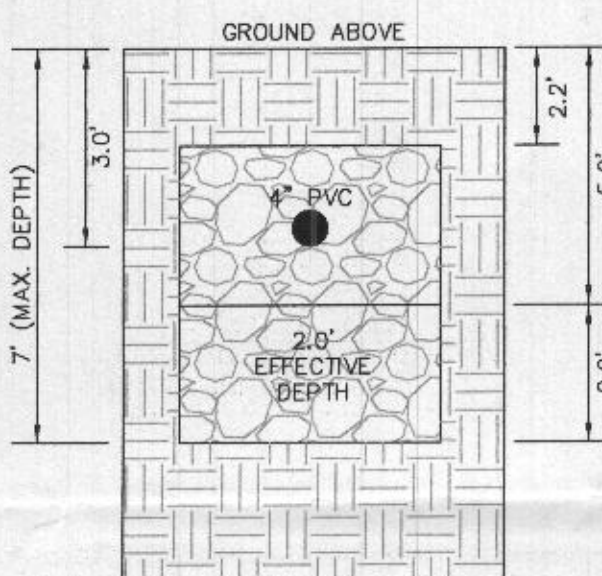
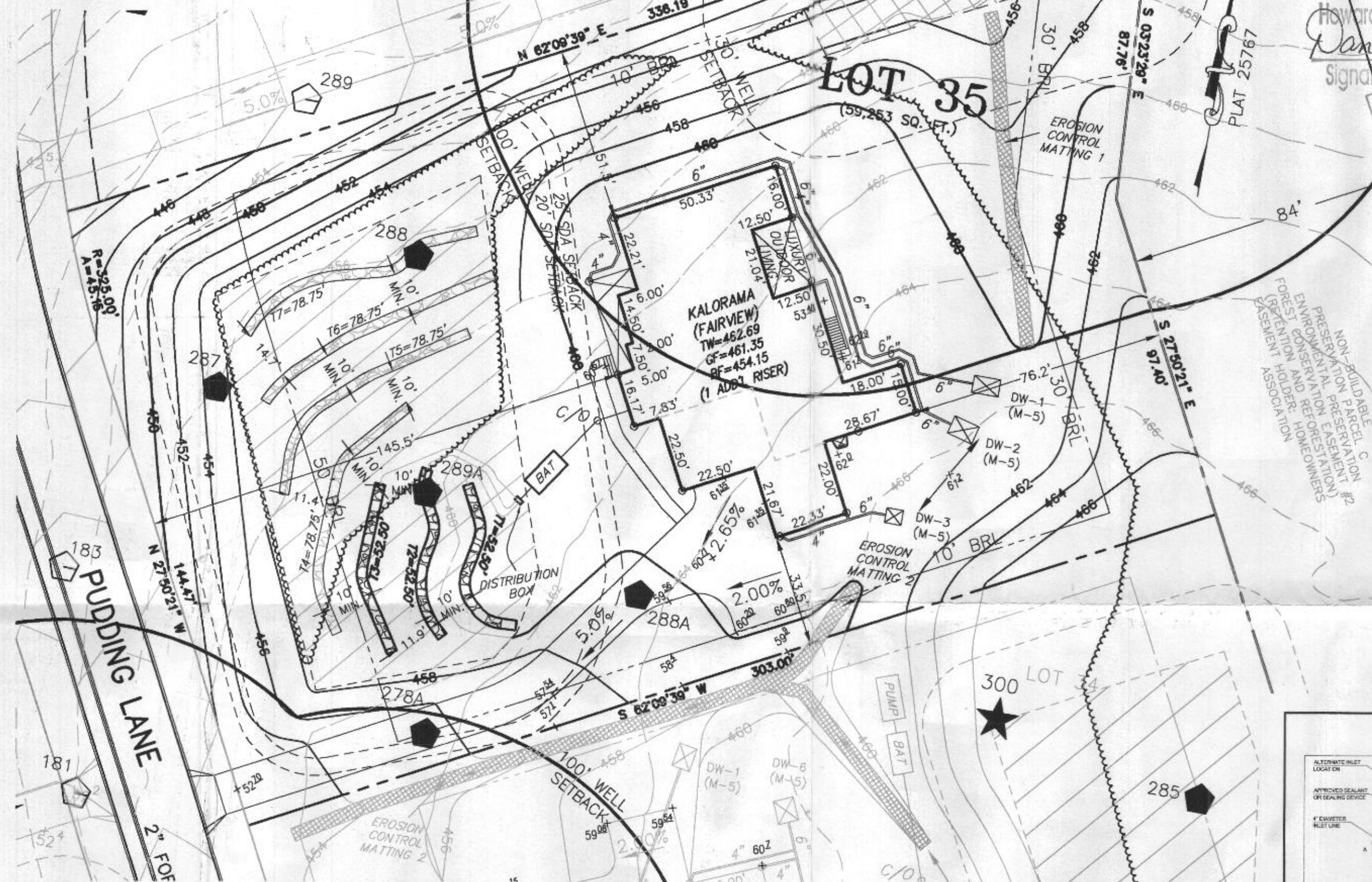
TRENCH 3 (T3): 52.50 LF
GROUND ABOVE = 459.30'
INV. IN = 456.80'
BOTTOM TRENCH = 452.30'

HOUSE OPTIONS:

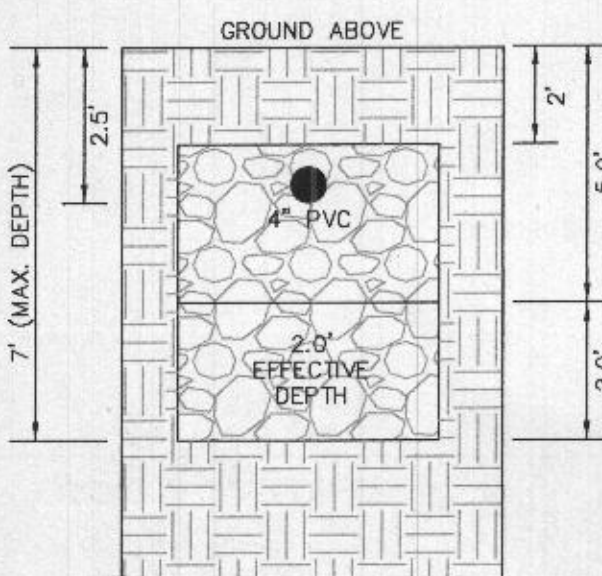
HOUSE TYPE: KALORAMA (FAIRVIEW)

- TWO CAR SIDE ENTRY GARAGE
- FINISHED LOWER LEVEL
- DAYLIGHT BASEMENT
- DAYLIGHT WINDOW/WELL
- WET BAR
- MEDIA ROOM
- DOUBLE WIDE DRIVEWAY TAIL
- ADDITIONAL TWO CAR FRONT ENTRY GARAGE
- POWDER ROOM FOR FINISHED LOWER LEVEL
- STUDY IN LIEU OF LIVING ROOM/FLEX ROOM
- MULTI-GENERATIONAL SUITE ADDITION
- GRAND MULTI-GENERATIONAL SUITE ADDITION
- EXPANDED CLOSET
- PREP KITCHEN
- LUXURY OUTDOOR LIVING
- BEDROOM IN FINISHED LOWER LEVEL
- FINISHED THIRD FLOOR WITH HALF BATH
- FINISHED BASEMENT UNDER GRAND MULTI-GEN

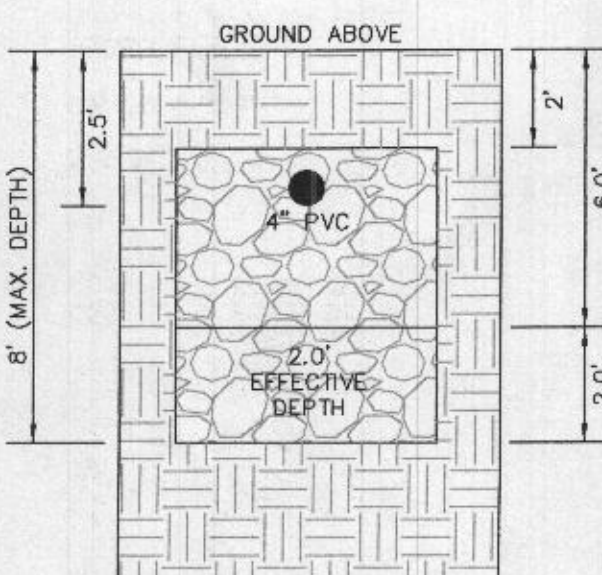
- OPTION No. 012
- OPTION No. 013
- OPTION No. 018
- OPTION No. 543
- OPTION No. 561
- OPTION No. 562
- OPTION No. 851
- OPTION No. 263019
- OPTION No. 263036
- OPTION No. 263038
- OPTION No. 263073
- OPTION No. 263075
- OPTION No. 263111
- OPTION No. 263158
- OPTION No. 263165
- OPTION No. 263216
- OPTION No. 263381
- OPTION No. 263279



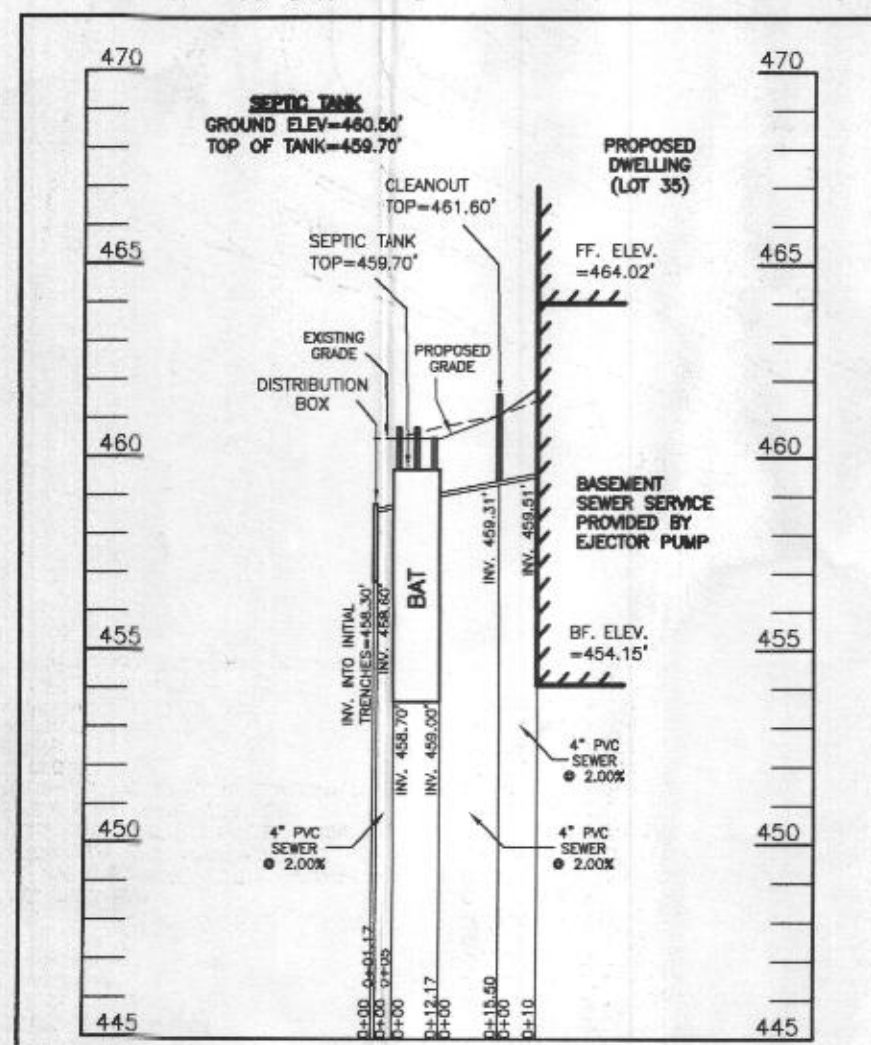
INITIAL SYSTEM
TRENCH DETAIL (T1) THRU (T3)
(NOT TO SCALE)



1ST REPLACEMENT SYSTEM
TRENCH DETAIL (T4) AND (T5)
(NOT TO SCALE)



2ND REPLACEMENT SYSTEM
TRENCH DETAIL (T6) AND (T7)
(NOT TO SCALE)



SEPTIC SYSTEM PROFILE
SCALE = HORIZONTAL: 1"=50'
VERTICAL: 1"=5'

WELL LOCATION CERTIFICATION:

THE EXISTING WELL SHOWN FOR LOT 35 (TAG NO. HO-18-0147) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.

SEWAGE DISPOSAL SYSTEM DATA (6 BDRM):

- PROPOSED INVERT AT FOUNDATION WALL: 459.51'
- 1. EX. GRADE OVER TANK: 461.00'
PROPOSED GRADE OVER TANK: 460.50'
INVERT IN: 459.00' INVERT OUT: 458.70'
- 2. INITIAL TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)
900 GPD ÷ 1.2 APP. RATE = 750 SF
USE 3' WIDE TRENCH WITH 48" GRAVEL BELOW PIPE
10' MIN. SPACING BETWEEN TRENCH EDGES
750 SF ÷ 3' WIDTH = 250 LF x 0.63 (SIDEWALL REDUCTION) = 157.50 LF MIN.
USE 3 52.50' LONG TRENCHES = 157.50 LF
- 3. 1ST REPLACEMENT TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)
900 GPD ÷ 1.2 APP. RATE = 750 SF
USE 3' WIDE TRENCH WITH 54" GRAVEL BELOW PIPE
10' MIN. SPACING BETWEEN TRENCH EDGES
750 SF ÷ 3' WIDTH = 250 LF x 0.63 (SIDEWALL REDUCTION) = 157.50 LF MIN.
USE 2 78.75' LONG TRENCHES = 157.50 LF
- 4. 2ND REPLACEMENT TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)
900 GPD ÷ 1.2 APP. RATE = 750 SF
USE 3' WIDE TRENCH WITH 66" GRAVEL BELOW PIPE
10' MIN. SPACING BETWEEN TRENCH EDGES
750 SF ÷ 3' WIDTH = 250 LF x 0.63 (SIDEWALL REDUCTION) = 157.50 LF MIN.
USE 2 78.75' LONG TRENCHES = 157.50 LF

REVISION DUE TO FIELD INSPECTOR NOTICING GRADING IN THE SEWAGE DISPOSAL AREA AT THE INITIAL TRENCHES, FIELD CONDITIONS AND ADJUSTED TRENCHES ARE SHOWN HEREON

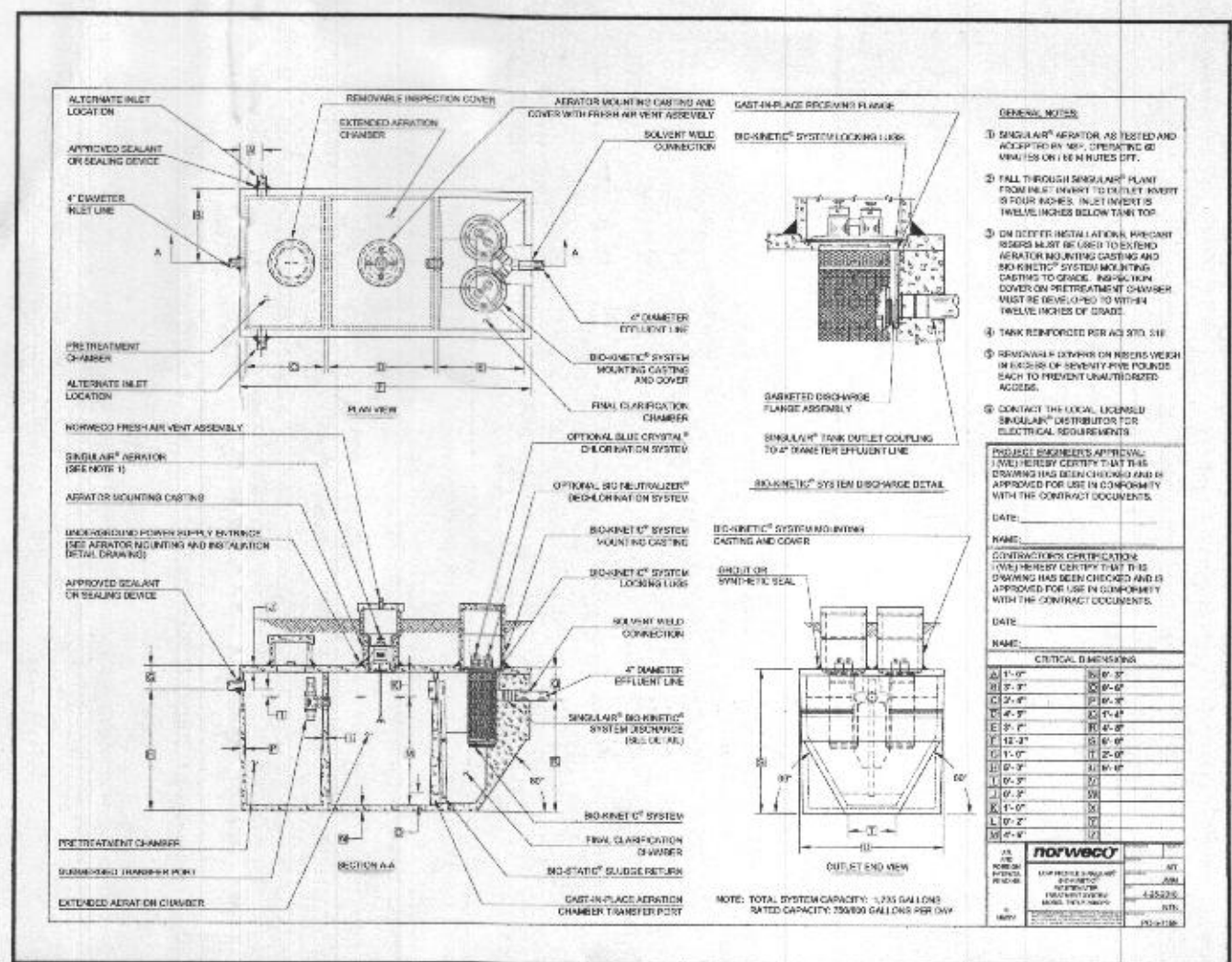


Approved Septic System Plan
Howard County Health Department
Dana Bernard
Signature
Date

VICINITY MAP
1" = 1000'

GENERAL NOTES:

- THESE AREAS DESIGNATE A PRIVATE SEWAGE AREA OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THESE AREAS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENTS INTO THE PRIVATE SEWAGE AREA. RECORDATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.
- EXISTING WELLS, SEPTIC SYSTEMS, AND SEWAGE DISPOSAL AREAS WITHIN 100' OF THE PROPERTY AND THOSE WELLS WITHIN 200' DOWN GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS OR SEWAGE DISPOSAL AREAS HAVE BEEN SHOWN.
- ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- BUILDING SETBACKS (B.R.L.'s) SHOWN HEREON PER SITE DEVELOPMENT PLAN SETBACK DISTANCES SHOWN HEREON AS "±" HAVE AN ACCURACY OF ±0.1' FOOT.
- ANY CHANGES TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
- THE MAXIMUM EARTH COVER OVER THE TANK IS THREE (3) FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
- THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP, WIDTH, AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- THE EXISTING TOPOGRAPHY SHOWN HEREON IS FROM HOWARD COUNTY GIS, 2' CONTOUR INTERVAL AND FIELD VERIFIED BY BENCHMARK ENGINEERING, INC., IN FEBRUARY 2014.



SITE PLAN FOR BAT INSTALLATION
LOT 35
KINGS FOREST
LIBER 11372, FOLIO 431
PLAT NO. 25767
ELECTION DISTRICT NO. 2
HOWARD COUNTY, MARYLAND
ADDRESS: 10505 PUDDING LANE
ELLICOTT CITY, MARYLAND 21042

ESE CONSULTANTS
ENGINEERING • PLANNING • SURVEYING • ENVIRONMENTAL

ESE Consultants, Inc.
6731 Columbia Gateway Drive • Suite 120 • Columbia, MD 21046
T: 410-872-9105

DATE: 05/28/2022 SCALE: 1"= 30' FILE: BAT LOT 35_rev1
CHK'D: M.J.B. JOB NO: 3502 DRAWN: R.C.K.